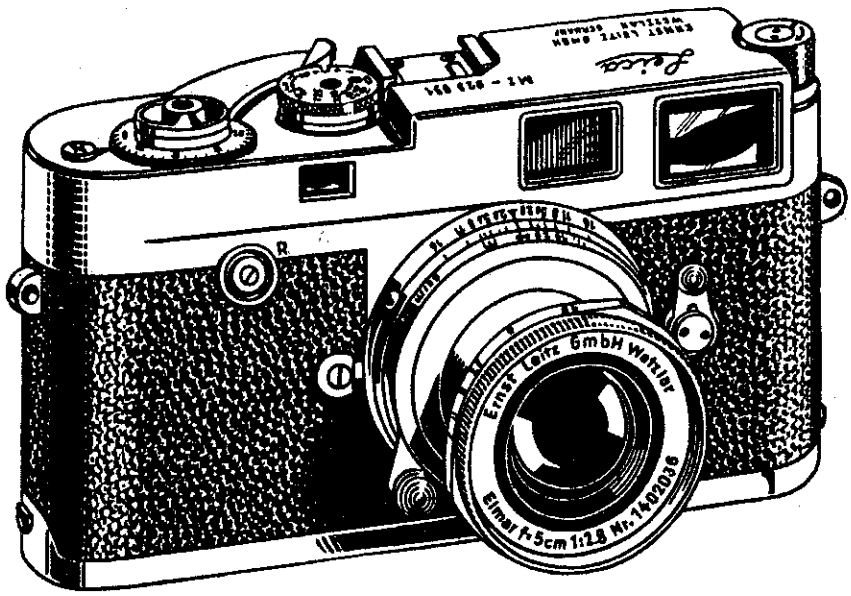
Leica M2

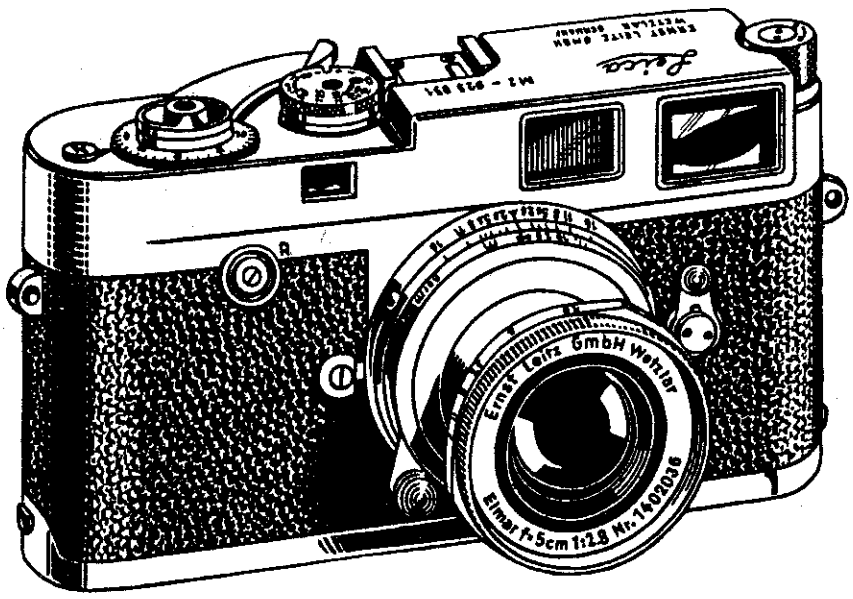


Servicing Instructions

Spare Parts List

ERNST LEITZ GMBH WETZLAR

Leica M2



Servicing Instructions

Spare Parts List

ERNST LEITZ GMBH WETZLAR

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Servicing Instructions for Leica M2 and for Leica M1

Eichanleitung für Prüfgeräte
Instructions for Testing Gauging Equipments

Ersatzteilliste — Blatt Nr / Sheet No
Spare Parts Lists

Leica M2 ——— 1

Deckkappe ——— 2
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Synchronization

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Finder, Light Shield, Rewind Ass.

1.7.59

Introduction

This folder contains servicing instructions and spare parts lists for the Leica M2 miniature camera.

The servicing instructions describe and illustrate assembly, adjustment, and repair procedures. The tools listed can be ordered from us.

Individual components and sub-assemblies should be cleaned with lead-free petrol or petroleum spirit after removal from the body unit. Escapements and delayed action mechanisms should not be dismantled for cleaning. Lacquered and engraved parts must not be treated with petrol, and should therefore be cleaned with a soft dry piece of leather or brush.

All parts to be lubricated must be dry.

Parts of glass and rubber (shutter blinds) must not come into contact with petrol, oil, or grease.

The following lubricants are required, and can only be ordered from us:

No 300	(symbol ◔◔◔)	No 602	(symbol ◉◉◉)
No 460	(symbol ◑◑◑)	No 618	(symbol ◪◪◪)
No 601	(symbol △△△)	No 704	(symbol ●●●)

No other lubricants must be used, as perfect working is guaranted only with the lubricants tested by us.

Note that many lubricants attack various types of plastics and may under certain conditions dissolve them or cause them to swell. The lubricants must therefore come into contact only with the surfaces indicated in the lubrication charts. Storage for longer than a year should be avoided.

The following adhesives are needed for servicing:

A	Araldit 103 Hardener 953 F	Messrs. Ciba AG., Basle
AS	Araldit 121 S Hardener 951	
B	Protective lacquer Thinner 13 652	Only available from Ernst Leitz G.m.b.H. Wetzlar
F	Teroson fluid special Terokal thinner D	
G	Liquid resin	
E	Adhesive EC 880	
U	UHU-hart	UHU, H.&M. Fischer, Bühl (Baden)

Components which according to the spare parts lists require treatment with adhesives, must be free from grease. Remnants of hardened adhesive or cements should be removed with the appropriate thinner. Follow instructions carefully to ensure perfect results.
Instructions for the use of adhesives are filed behind this introduction.

TECHNISCHER KUNDENDIENST

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In the spare parts lists every illustration page is accompanied by an itemized parts list. The illustration pages show the individual parts and sub-assemblies in their correct order of assembly. Points requiring application of lubricants or adhesives are marked by the appropriate symbols (e.g. ●●●) or letters (e.g. "F") respectively.
The itemized parts list pages indicate the part numbers and the description of any part that may have to be ordered, as well as the quantity required for the particular Leica model.
The part numbers shown on each illustration page correspond to those on its parts list page.
Only the components and sub-assemblies shown here can be ordered from us. Cover plates are supplied only on return of the cut out section carrying the serial number of the damaged part.

Ordering Spare Parts

If, for example, speed setting dials are required, adopt the following procedure: As the speed setting dial is mounted on the cover plate it will be found - from the contents list - to be on sheet 2.

After the part number has been located on the illustrated page the description must be found in the parts list where the items are listed in numerical sequence. In the spare parts price list the price group can also be found and from the price group index the DM price can be determined.

The order in this case reads as follows:

Pos.	Stück	Preis / St. DM	Bestell-Nr	Benennung
1	10	2.80	42-253.01-301	speed setting dial

The spare parts listed in this list are only to be ordered with the order forms supplied by the Technical Service Department as shown in the above exsample. Please note the following:

1. Use these forms only for spare parts which are included in the spare parts lists.
2. Fill in the set of forms by typewriter or ballpoint pen.
3. Only in the most urgent cases order single parts; screws, nuts and washers never under 10 pieces each.
4. Do not list any sales items (General Catalogue for the LEICA System).
5. Please indicate whether partical shipment would be allowed. It may happen that some part or tool is not available for some time. Such item would be cancelled on your form, the rest delivered and the missing part booked for subsequent delivery.
6. Keep the page market "Besteller", this is your record of the order. Send the other 3 pages, with the carbon paper in between, to us.
7. All the prices in our spare part list are net prices.

TECHNISCHER KUNDENDIENST

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TECHNISCHER KUNDENDIENST

Adhesive 859/F

1. Applications — The adhesive 859/F is used wherever marked in the spare parts lists as "liquid resin".

2. Mixing — The adhesive 859/F is mixed with just enough thinner 859/FV to enable it to be squeezed out of the nozzle of a glass syringe. The adhesive and thinner must be well mixed to ensure homogeneity.

3. Hardening — The adhesive is hardened with the cemented parts in a horizontal position, for

   1 hour at +60°C, or
   10 hours at +20°C.

4. Period of Use — The adhesive 859/F remains usable for 8 hours in the glass syringe.

5. Foreign Matter — Foreign matter and excess of hardened adhesive can be removed with a brass knife or with alcohol or methylated spirit.

6. After Use — The glass syringe and cap of bottle should be cleaned with the thinner 859/FV.

Ernst Leitz G m b H Wetzlar	Instructions for the use of Adhesives	Sheet 2.1

Araldit 103 + Hardener 953 F

1. Where to use

Araldit 103 is used with all parts marked "A" in the spare parts lists.

2. How to mix

100 parts of Araldit 103 are mixed with 100 parts of hardener 953 F

1 gram Araldit 103 ... 1 gram Hardener 953 F

The proper hardening of the adhesive is subject to the exact mixing ratio. The mixture must be well blended to ensure homogene distribution of the hardener.

3. How to apply

Surfaces are cleaned with Tri or chloroform. Be sure that all foreign matter, oil or grease is removed completely.
Parts to be cemented should be heated to 40° - 50° Centigrade; this allows a smoother application of the adhesive which is more liquid at this temperature. Parts will adhere better and with more water-resistance. Immediately after application of the adhesive the parts must be put together. Excessive adhesive must be removed with a brassknife or acetone.

4. Hardening

At	20°C	in	14 to 24	hours or
at	60°C	in	2 to 3	hours or
at	100°C	in	1 to 2	hours or
at	130°C	in	30	minutes or
at	150°C	in	20	minutes or
at	180°C	in	10	minutes.

5. Period of use

The mixture is useable for 4 to 5 hours at 20°C.

6. How to dissolve it

Parts cemented with Araldit 103 can be separated again by either one of two methods:

Submerging parts in a mixture chloroform and dimethylformamid (DMF) 1:1 several days or heating parts to a temperature between 180° and 200°C; "break" items apart.

7. How to store

When stored in a cool room - the adhesive may keep 1 year.

Krüger

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Araldit 121 S + Hardener 951

1. Where to use

Araldit 121 S is used with all parts marked "AS" in the spare parts lists.

2. How to mix

100 parts of araldit 121 S are mixed with 4 - 4,5 parts of hardener 951 or

1 gram Araldit 121 S ... 43 mg Hardener 951

The proper hardening of the adhesive is subject to the exact mixing ratio. The mixture must be well blended to ensure homogene distribution of the hardener.

3. How to apply

Surfaces are cleaned with Tri or chloroform. Be sure that all foreign matter, oil or grease is removed completely.
Parts to be cemented should be heated to 40° - 50° Centigrade; this allows a smoother application of the adhesive which is more liquid at this temperature. Parts will adhere better and with more water-resistance. Immediately after application of the adhesive the parts must be put together. Excessive adhesive must be removed with a brassknife or acetone.

4. Hardening

At 20°C in 14 to 24 hours or
at 60°C in 2 to 3 hours or
at 100°C in 30 to 60 minutes.

Better adhesion will result from hardening at the higher temperatures, however, 100°C is the maximum temperature recommende.

5. Period of use

The mixture is useable for 1 hour at 20°C.

6. How to dissolve it

Parts cemented with Araldit 121 S can be separated again by either one of two methods:
Submerging parts in a mixture chloroform and dimethylformamid (DMF) 1:1 several days or heating parts to a temperature between 180° and 200°C; "break" items apart.

7. How to store

When stored in a cool room - the adhesive may keep 1 year.

Special Teroson Fluid

1. Use — Special Teroson Fluid is used at the points marked "F" in the Spare Parts Lists.

2. Thinning — Special Teroson Fluid can be diluted to a limited extent with Terokal D thinner.

3. Application of the Cement — Brush Special Teroson Fluid evenly thinly over the surfaces to be cemented with a size 0 bristle brush, place the surfaces in contact, and press together. After use, close the Special Teroson Fluid container hermetically.

4. Hardening — According to the thickness of the layer, about 12 to 24 hours at 20 °C (68 °F).
Complete hardening takes 48 hours.

5. Solvent — Remnants of hardened cement can be dissolved away with Terokal D thinner.

6. Keeping Quality — If stored in a cool place, Special Teroson Fluid can be kept up to not more than six months.

7. Packings

Special Teroson Fluid:	50 grams
	100 grams
	1000 grams
Terokal D thinner	100 grams
	200 grams

Note: Special Teroson Fluid and Terokal D thinner are inflammable!

Krüger

Adhesive EC 880

1. Use — The adhesive is to be used at places which are marked "E" in the spare parts lists.

2. Mixing — The adhesive is supplied ready for use, but has to be well mixed before application. If necessary, it may be diluted with thinning agent MB.

3. Application — The surfaces where the adhesive has to be applied should be free of dirt, oil or fats. For cleaning use trichlorethylene or chloroform.
Apply the adhesive in a thin even layer on both surfaces and let it dry until it is only slightly sticky, but does not adhere if touched. Now press the parts with their adhesive surfaces together.

4. Hardening — To achieve maximum durability, the adhesive needs a drying time of 24 hours.

5. Dissolving — To remove spilt and hardened adhesive use thinning agent MB.

6. Storage — In well closed containers the adhesive can be stored for any length of time.

7. Packing — Adhesive EC 880: 100 grams
200 grams

Thinning agent MB 100 grams

Caution! Adhesive EC 880 and thinning agent MB are highly inflammable.

42-582/8.2 **Leica M2 966 501...** Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
42-253.01- 40	Auslösestange release shaft	1	1	1
42-253.01-406	Auslösebolzen, mont. release shaft, ass.	1	1	1
42-253.01-516	Scheibe washer	1	1	1
42-253.01-520	Mutter nut	1	1	1
42-253.01-522	Friktionsscheibe friction washer	1	1	1
42-582.01- 21	Lagerbuchse / bearing bushing	1	-	1
42-582.01- 23	Mitnehmer / carrier	1	-	1
42-582.01- 28	Auslösekopf / relaease knob	1	1	1
42-582.01- 39	Hülse / sleeve	1	1	1
42-582.01-120	Klinke, genietet counting lever, riveted	1	-	1
42-582.01-138	Antriebachse, mont. drive shaft, ass.	1	-	1
42-582.01-143	Zahnrad gear	1	-	1
42-582.01-144	Kupplungsscheibe / coupling disk	1	-	1
42-582.01-145	Druckfeder / pressure spring	1	-	1
42-582.01-150	Sicherungsscheibe / C-clip	1	-	1
42-582.01-154	Feder / spring	1	-	1
42-582.01-164	Aufzugachse, kompl. ohne 01-23; 1,5x5 DIN 1473 winding shaft, compl. without 01-23;	1	-	1
42-582.01-165	Achse 1,5x5 DIN 1473 shaft	1	-	1
42-582.01-168	Spulenhalter spool holder	1	-	1
42-582.01-169	Hülse / sleeve	1	-	1
42-582.01-171	Sperrscheibe / lock desc	1	-	1
42-582.01-174	Friktionsfeder friction spring	1	-	1
42-582.01-181	Sicherungsscheibe C-clip	1	-	1
M 1,7x4 DIN 84	Schraube / screw	2	-	2
M 2x3 LN 120 21	Schraube / screw	3	3	3
15-10.174- 5	Schraube / screw	1	1	1
15-10.31 - 9	Schraube / screw	1	-	1
15-12.03 -26/1	Scheibe / washer	2	-	2
15-12.04 -15/1	Tellerscheibe / lock washer	1	-	1
15-12.04 -16/1	Scheibe 0,3 mm, nach Bedarf washer 0.3 mm, when needed	2	-	2
15-12.04 -16/4	Scheibe 0,1 mm, nach Bedarf washer 0.1 mm, when needed	2	-	2
15-12.06 -18/5	Scheibe 0,1 mm dick washer 0.1 mm thick	1	-	1
15-12.06 -18/6	Scheibe 0,06 mm dick washer 0.06 mm thick	1	-	1
15-12.15 - 7/1	Federscheibe spring washer	1	-	1
1,5x5 DIN 1473	Zylinderstift cylinder pin	1	-	1
3,2 DIN 6799	Sicherungsscheibe C-clip	1	1	1

TECHNISCHER KUNDENDIENST

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Krüger

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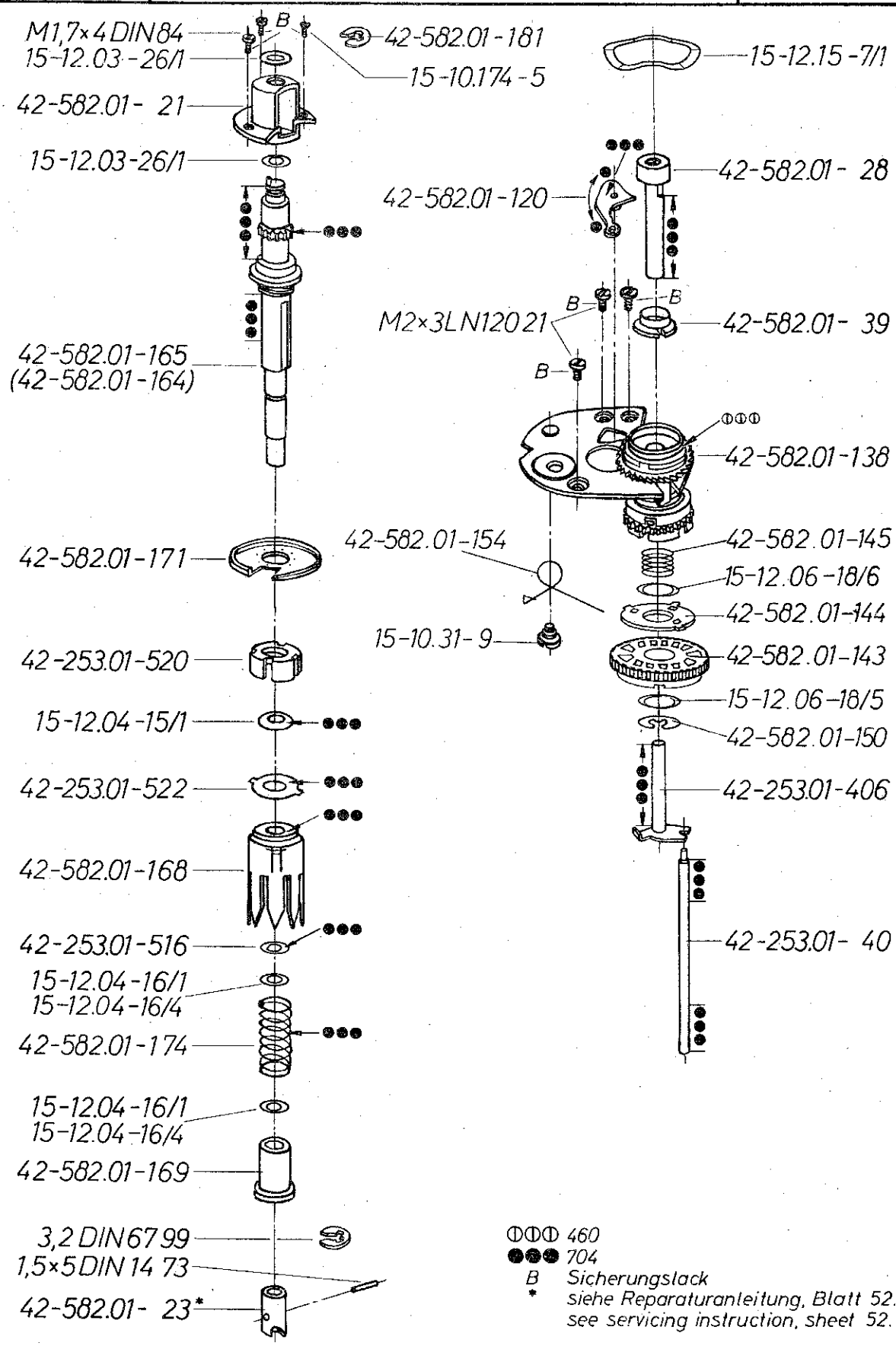


TECHNISCHER KUNDENDIENST

21.11.66

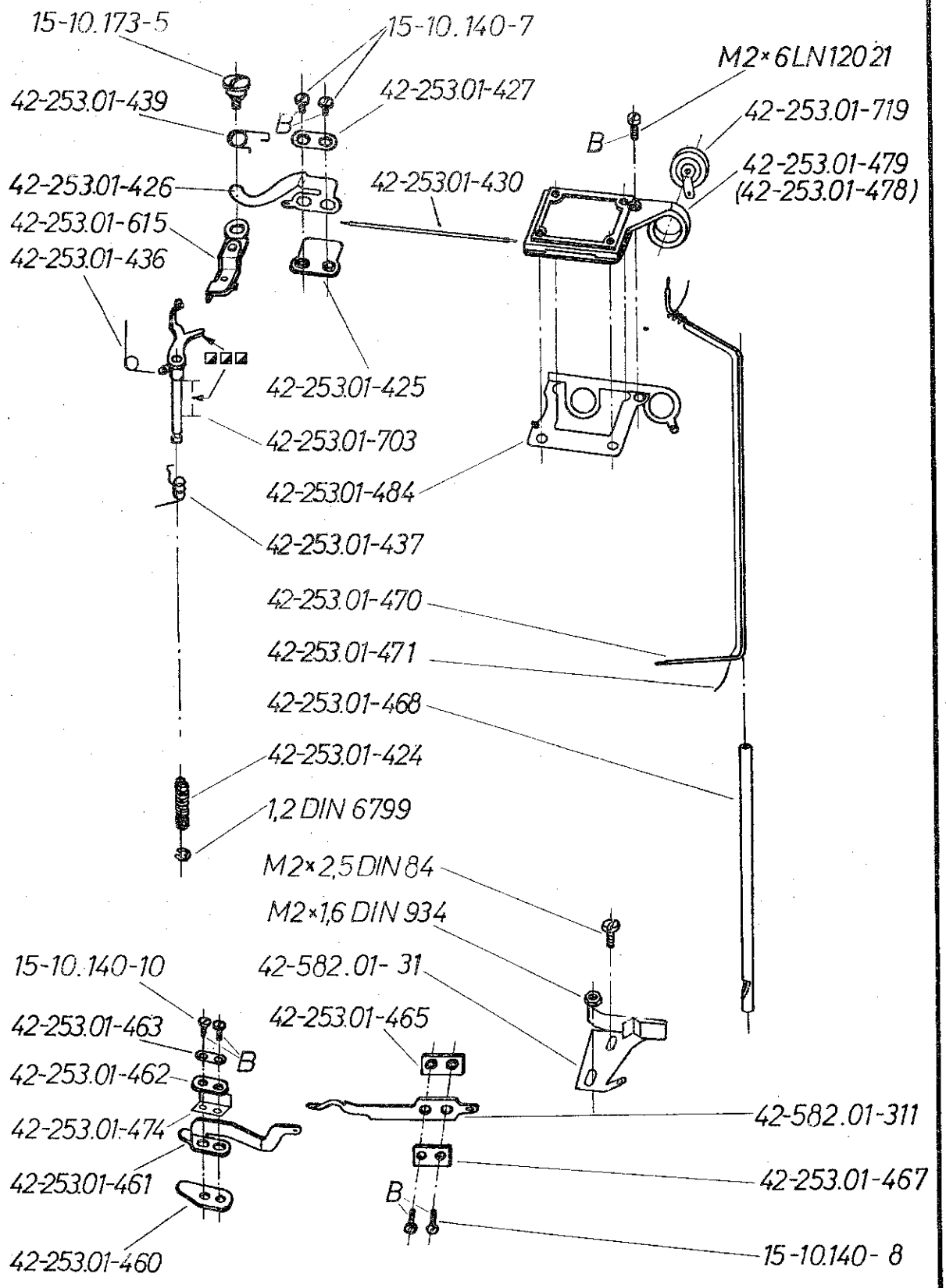
Ernst Leitz GmbH Wetzlar	Leica M2 - 926 001...	42-582/9.1

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M1	M3
15-10.140- 7	Zylinderschraube, brüniert cylindrical head screw, burnished	2	2	2
15-10.140- 8	Zylinderschraube, brüniert cylindrical head screw, burnished	2	2	2
15-10.140-10	Schraube, brüniert screw, burnished	2	2	2
15-10.173- 5	Achsschraube, brüniert shoulder screw, burnished	1	1	1

42-582/9.1	Leica M2 - 926 001...	Ernst Leitz GmbH Wetzlar

Bestell-Nr. Part No.	Benennung Description	Leica - Modell M2	M1	M3
42-253.01-424	Druckfeder pressure spring	1	1	1
42-253.01-425	Isolierplatte insulation plate	1	1	1
42-253.01-426	Kontaktfeder contact spring	1	1	1
42-253.01-427	Isolierstück insulation plate	1	1	1
42-253.01-430	flexibles Kabel 30 mm lang flexible cable 30 mm long	1	1	1
42-253.01-436	Kupferdraht, 0,2 ø copper wire	1	1	1
42-253.01-457	Drehungsfeder special spring	1	1	1
42-253.01-459	Feder spring	1	1	1
42-253.01-460	Isolierplatte insulation plate	1	1	1
42-253.01-461	Kontaktfeder contact spring	1	1	1
42-253.01-462	Isolierstück insulation plate	1	1	1
42-253.01-463	Platte plate	1	1	1
42-253.01-465	Isolierplatte insulation plate	1	1	1
42-253.01-467	Isolierstück insulation plate	1	1	1
42-253.01-468	Rohr tube	1	1	1
42-253.01-470	flexibles Kabel 95 mm lang flexible cable 95 mm long	1	1	1
42-253.01-471	Kupferdraht 0,2 ø; 95 mm lang copper wire 0,2 ø; 95 mm long	1	1	1
42-253.01-474	Isolierplättchen insulation plate	1	1	1
42-253.01-478	Anschlußrahmen, mont. contact frame, ass.	1	1	1
42-253.01-479	Zwischenstück intermediate plate	1	1	1
42-253.01-484	Kontaktblech contact plate	1	1	1
42-253.01-615	Blitzeinstellhebel, kompl. flash adjusting lever, compl.	1	1	1
42-253.01-703	Blitzlichtstange, kompl. flash light shaft, compl.	1	1	1
42-253.01-719	Kontaktniet, genietet contact rivet, riveted	1	1	1
42-582.01- 31	Leitfeder guide spring	1	1	-
42-582.01-311	Kontaktfeder contact spring	1	1	-
1,2 DIN 6799	Sicherungsscheibe retaining washer	1	1	1
M 2 x 1,6 DIN 934	Sechskantmutter, gebeizt hexagon nut, corroded	1	1	1
M 2 x 2,5 DIN 84	Schraube, brüniert screw, burnished	1	1	-
M 2 x 6 LN 510 21	Zylinderschraube, brüniert cylindrical head screw, burnished	1	1	1

1.10.62



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42-582/10.1

Leica M2 926001...

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	 M3
42-253.01- 44	Ring ring	1	1
42-253.01- 50	Hülse sleeve	1	1
42-253.01- 54	Achse shaft	1	1
42-253.01- 55	Feder spring	1	1
42-253.01- 57	Achse shaft	1	1
42-253.01- 58	Feder spring	1	1
42-253.01- 60	Zwischenring intermediate ring	1	1
42-253.01-129	Anschlaghebel stop lever	1	1
42-253.01-287	Einstellhebel, mont. adjusting lever, ass.	1	1
42-253.01-29[illegible]	Feder spring	1	1
42-253.01-302	Platte, kompl. bearing plate, compl.	1	1
42-253.01-305	Einstellkurve setting cam	1	1
42-253.01-314	Zwischenlage intermediate ring	1	1
42-253.01-328	Ausrückhebel, mont. release lever, ass.	1	1
42-253.01-825	Hebel lever	1	1
42-253.01-826	Feder spring	1	1
42-253.15- 1	Hemmwerk, kompl. slow speed, compl.	1	1
42-253.23- 1	Hemmwerk, kompl. slow speed, compl.	1	1
M 2 x 3 LN 120 21	Zylinderschraube, brüniert cylindrical head screw, burnished	2	2
M 2 DIN 934	Sechskantmutter, brüniert hexagon nut, burnished	1	1
15-10.144- 7	Senkschraube, brüniert countersunk screw, burnished	2	2
15-10.170- 6	Schraube, brüniert screw, burnished	1	1
15-10.21 - 9	Lagerschraube, brüniert bearing screw, burnished	1	1
15-10.230- 6	Halteschraube, verchromt screw, chrome-plated	1	1
15-12.02-13/1	Unterlegscheibe washer	1	1
1,5 DIN 6799	Sicherungsscheibe retaining washer	2	2

TECHNISCHER KUNDENDIENST

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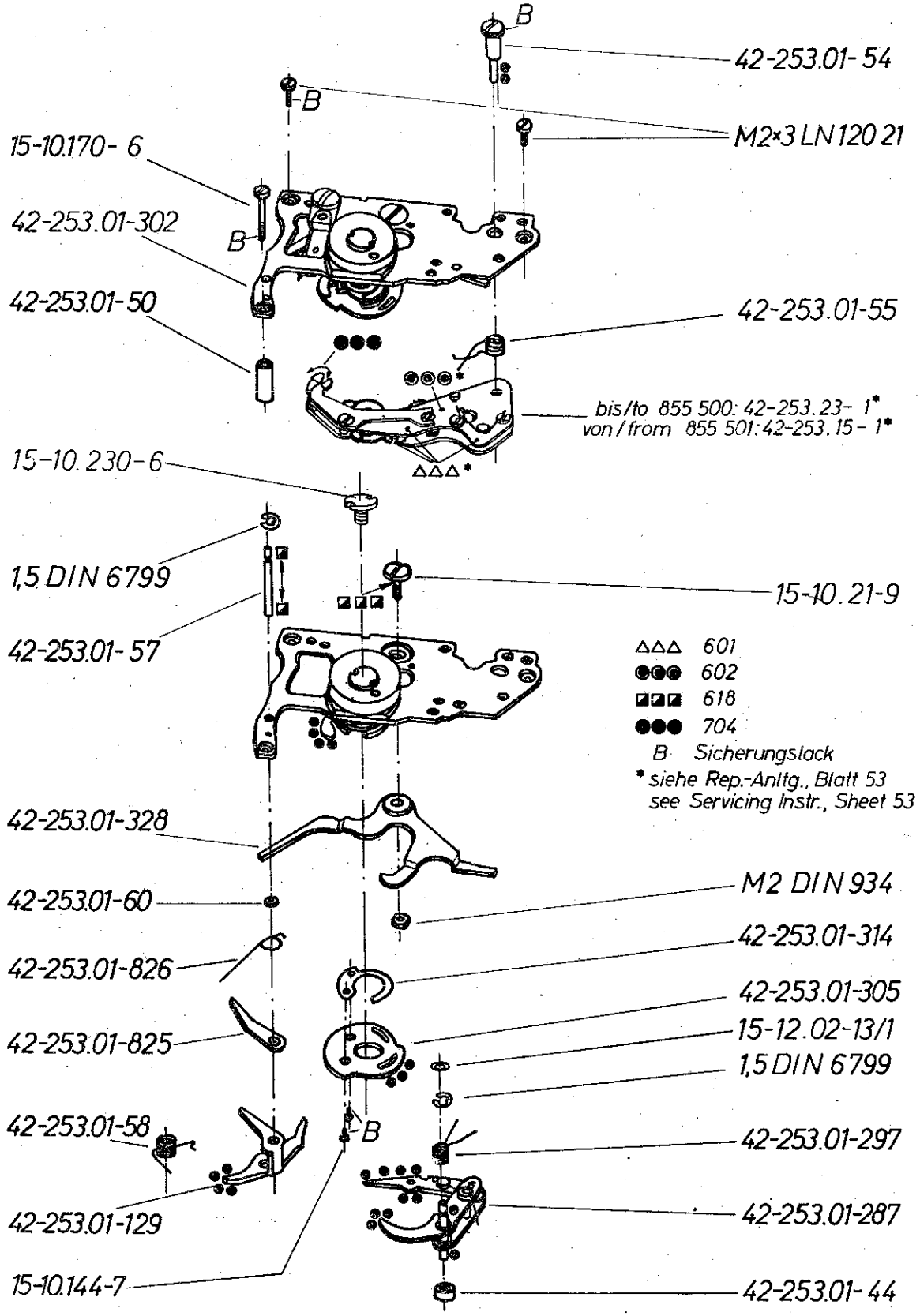


TECHNISCHER KUNDENDIENST

21.11.66

Ernst Leitz GmbH Wetzlar

Leica M2 926001...970 260

42-582/11.1

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	 M3
15-12.03-21/1	Scheibe 0,1 mm dick, bei Bedarf washer 0.1 mm thick, when needed	2	2
15-12.03-21/2	Scheibe 0,2 mm dick, bei Bedarf washer 0.2 mm thick, when needed	2	2
15-12.03-21/3	Scheibe 0,06 mm dick, bei Bedarf washer 0.06mm thick, when needed	2	2
1,5 DIN 6799	Sicherungsscheibe retaining washer	1	-

*nicht mehr lieferbar. 42-253.01-16 in Verbindung mit 42-582.01-374 verwenden

*no longer available. Use 42-253.01-16 in connection with 42-582.01-374

42-582/11.1	Leica M2 926001...970 260	Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica /- Modell M2	M3
42-253.01- 28	Ritzel intermediate gear	1	1
42-253.01- 30	Anschlagscheibe stop disc	1	1
42-253.01- 31	Mutter nut	1	1
42-253.01- 33	Zahnrad gear	1	1
42-253.01- 78	Klemmleiste locking plate	1	1
42-253.01- 90	Deckplatte cover plate	1	1
42-253.01-121	Blattfeder, mont. flat spring, ass.	1	1
42-253.01-130	Aufzugachse, mont. winding shaft, ass.	1	1
42-253.01-281	Sperrhebel, mont. arresting lever, ass.	1	1
42-253.01-416	Spannplättchen tension washer	1	1
42-253.01-417	Feder spring	1	1
42-253.01-429	Isolierhaube insulation cap	1	1
42-253.01-684	Sperrklinke / lock lever	1	1
42-253.01-816	Zwischenlager, bei Bedarf intermediate plate, when needed	1	1
42-253.01-821	Stützwinkel / angle bracket	1	1
42-253.01-824	Anschlagscheibe stop disc	1	1
42-582.01- 18	Achse, mont. / shaft, compl.	1	-
42-582.01- 22	Achse / shaft	1	-
42-582.01- 24	Druckfeder pressure spring	1	-
~~42-582.01-124~~	~~Filmtransportwalze, kompl.*~~ ~~sprocket wheel, compl.*~~	1	-
AM 2 x 4 DIN 84	Linsenschraube, schwarz halbmatt oval head screw, black semimat	1	1
M 2 x 3 LN 120 21	Zylinderschraube, brüniert cylindrical head screw, burnished	1	1
M2x6,3LN 120 21	Zylinderschraube, Neusilber cylindrical head screw, when needed	1	1
M 2 x 4 LN 120 21	Zylinderschraube, brüniert cylindrical head screw, burnished	1	1
M1,7x3,5 LN 120 25	Linsenschraube, schwarz halbmatt oval head screw, black semimat	2	2
15-10.144- 8	Senkschraube, brüniert countersunk screw, burnished	2	2
15-10.174- 5	Senkschraube, brüniert countersunk screw, burnished	1	1
15-10.174- 7	Schraube, schwarz halbmatt screw, black semimat	1	1
15-10.175- 7	Schraube, brüniert screw, burnished	1	1
15-10.29 -14	Justierschraube, brüniert adjusting screw, burnished	1	1
15-11.25 - 5	Mutter, brüniert nut, burnished	1	1
15-12.02 -28/1	Scheibe washer	1	-

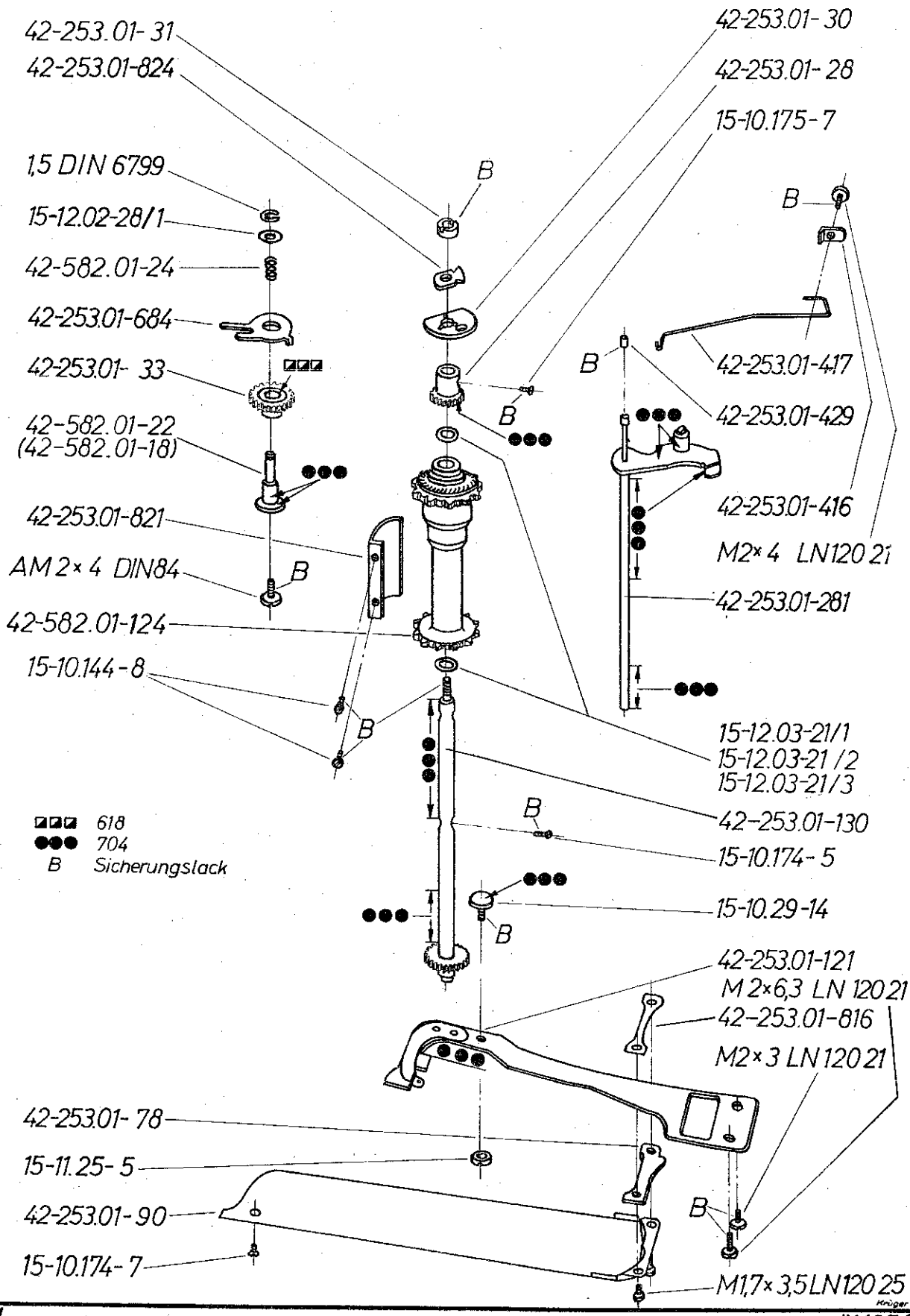
TECHNISCHER KUNDENDIENST

21.11.66

Krüger

IY 105A

42-582/11



TECHNISCHER KUNDENDIENST

21.11.66

Plastic Adhesive II

1. Use

The adhesive is to be used at places which are marked "P" in the spare parts lists.

2. Mixing

The adhesive is supplied ready for use, but has to be well mixed before application. If necessary, it may be diluted with Terokal-thinning agent D.

3. Application

The surfaces where the adhesive has to be applied should be free of dirt, oil or fats. For cleaning use trichlorethylene or chloroform.
Apply the adhesive in a thin even layer on both surfaces and let it dry until it is only slightly stickly, but does not adhere if touched. Now press the parts with their adhesive surfaces together.

4. Hardening

To achieve maximum durability, the adhesive needs a drying time of 24 hours.

5. Dissolving

To remove split and hardened adhesive use Terokal-thinning agent D.

6. Storage

In well closed containers the adhesive can be kept up to not more one year.

7. Packing

Plastic adhesive II:	100 grams
	200 grams
Terokal-thinning agent D:	100 grams

Caution! Plastic adhesive II and Terokal-thinning agent D are highly inflammable.

Ernst Leitz GmbH Wetzlar

Leica M2 970 261...

42-582/11.2

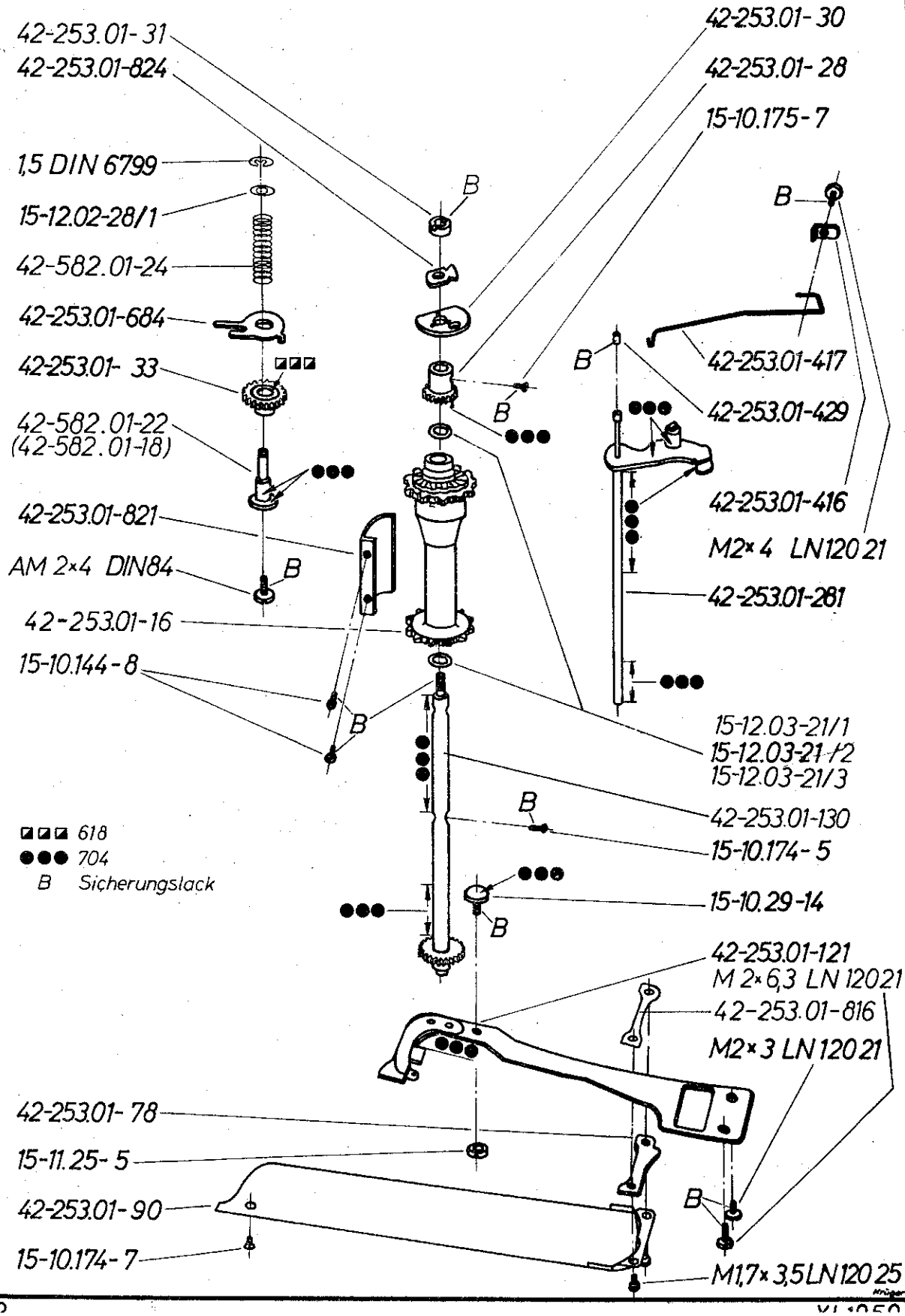
Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
15-12.02 -28/1	Scheibe washer	1	-	1
15-12.03 -21/1	Scheibe 0,1 mm dick, bei Bedarf washer 0.1 mm thick, when needed	2	2	2
15-12.03 -21/2	Scheibe 0,2 mm dick, bei Bedarf washer 0.2 mm thick, when needed	2	2	2
15-12.03 -21/3	Scheibe 0,06mm dick, bei Bedarf washer 0.06mm thick, when needed	2	2	2
1,5 DIN 6799	Sicherungsscheibe retaining washer	1	-	1

42-582/11.2 **Leica M2 970 261...** Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
42-253.01- 16	Filmtransportwalze, kompl. sprocket wheel, compl.	1	1	1
42-253.01- 28	Ritzel intermediate gear	1	1	1
42-253.01- 30	Anschlagscheibe stop disc	1	1	1
42-253.01- 31	Mutter nut	1	1	1
42-253.01- 33	Zahnrad gear	1	1	1
42-253.01- 78	Klemmlasche locking plate	1	1	1
42-253.01- 90	Deckplatte cover plate	1	1	1
42-253.01-121	Blattfeder, mont. flat spring, ass.	1	1	1
42-253.01-130	Aufwindeachse, mont. winding shaft, ass.	1	1	1
42-253.01-281	Sperrhebel, mont. arresting lever, ass.	1	1	1
42-253.01-416	Spannplättchen tension washer	1	1	1
42-253.01-417	Feder spring	1	1	1
42-253.01-429	Isolierschraube insulation cap	1	1	1
42-253.01-684	Sperrklinke / lock lever	1	1	1
42-253.01-816	Zwischenlage, bei Bedarf intermediate plate, when needed	1	1	1
42-253.01-821	Stützwinkel / angle bracket	1	1	1
42-253.01-824	Anschlagscheibe stop disc	1	1	1
42-582.01- 18	Achse, mont. / shaft, compl.	1	-	1
42-582.01- 22	Achse / shaft	1	-	1
42-582.01- 24	Druckfeder pressure spring	1	-	1
AM 2x4 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1	1	1
M1,7x3,5 LN 120 25	Linsenschraube, schwarz halbmatt oval head screw, black semimat	2	2	2
M 2 x 3 LN 120 21	Zylinderschraube, brüniert cylindrical head screw, burnished	1	1	1
M 2x6,3 LN 120 21	Zylinderschraube, Neusilber cylindrical head screw, german silver	1	1	1
M 2 x 4 LN 120 21	Zylinderschraube, brüniert cylindrical head screw, burnished	1	1	1
15-10.144- 8	Senkschraube, brüniert countersunk screw, burnished	2	2	2
15-10.174- 5	Senkschraube, brüniert countersunk screw, burnished	1	1	1
15-10.174- 7	Schraube, schwarz halbmatt screw, black semimat	1	1	1
15-10.175- 7	Schraube, brüniert screw, burnished	1	1	1
15-10.29 -14	Justierschraube, brüniert adjusting screw, burnished	1	1	1
15-11.25 - 5	Mutter, brüniert nut, burnished	1	1	1

TECHNISCHER KUNDENDIENST

21.11.66



TECHNISCHER KUNDENDIENST

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Ernst Leitz GmbH Wetzlar	Leica M2 926 001...947 500	42-582/12.1

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
15-12.03 -25/1	Federscheibe spring disc	1	-	1
15-12.03 -32/3	Unterlegscheibe bei Bedarf washer when needed	1	-	1
15-12.04 -14/8	Scheibe, 0,8 mm dick washer, 0.8 mm thick	1	-	1
1,5 DIN 6799	Sicherungsscheibe retaining washer	1	1	1

Leica M2 926 001...947 500

Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
42-253.01- 74	Exzenter eccenter	1	1	1
42-253.01-355	Zwischenrad, mont. intermediate gear, ass.	1	1	1
42-253.01-361	Sperrklinke, mont. arresting lever, ass.	1	1	1
42-253.01-364	Feder spring	1	1	1
42-253.01-368	Zwischenradachse intermediate gear shaft	1	1	1
42-253.01-429	Isolierhaube insulation cap	2	2	2
42-582.01- 33	Achslager bearing bushing	1	-	1
42-582.01-255	Bremse, kompl. brake, compl.	1	-	1
42-582.01-256	Friktionsscheibe friction washer	1	-	1
42-582.01-258	Bremsklotz brake disc	1	-	1
42-582.01-259	Zwischenscheibe intermediate plate	1	-	1
42-582.01-260	Friktionsscheibe friction plate	1	-	1
42-582.01-261	Bremsscheibe brake	1	-	1
42-582.01-267	Lagerblech, genietet bearing plate, riveted	1	-	1
42-582.01-271	Lager / bearing	1	-	1
42-582.01-273	Exzenter eccenter	1	-	1
42-582.01-274	Bremsfeder brake spring	1	-	1
42-582.01-275	Bremskufe brake runner	1	-	1
42-582.01-277	Bremsscheibe, genietet brake plate, riveted	1	-	1
M1,4x2,2 DIN 63	Schraube, brüniert / screw, burnished head	2	2	2
M 1,7x3 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1	1	1
M 2 x 5 DIN 84	Schraube, brüniert screw, burnished	1	-	1
M2,3x2,5 DIN 551	Gewindestift, brüniert threaded pin, burnished	1	1	1
15-10.174- 6	Schraube, brüniert screw, burnished	2	2	2
15-10.21 -12	Ansatzschraube, brüniert shoulder screw, burnished	1	-	1
15-10.21 -13	Ansatzschraube, brüniert shoulder screw, burnished	1	-	1
15-11.175- 5	Mutter, gebeizt nut, corroded	1	1	1
15-11.232- 5	Mutter, gebeizt nut, corroded	1	1	1
15-12.02 -10/1	Sattelfeder saddle spring	1	1	1
15-12.02 -14/1	Scheibe washer	1	1	1
15-12.03 -16/1	Unterlegscheibe, nach Bedarf washer, when needed			

TECHNISCHER KUNDENDIENST

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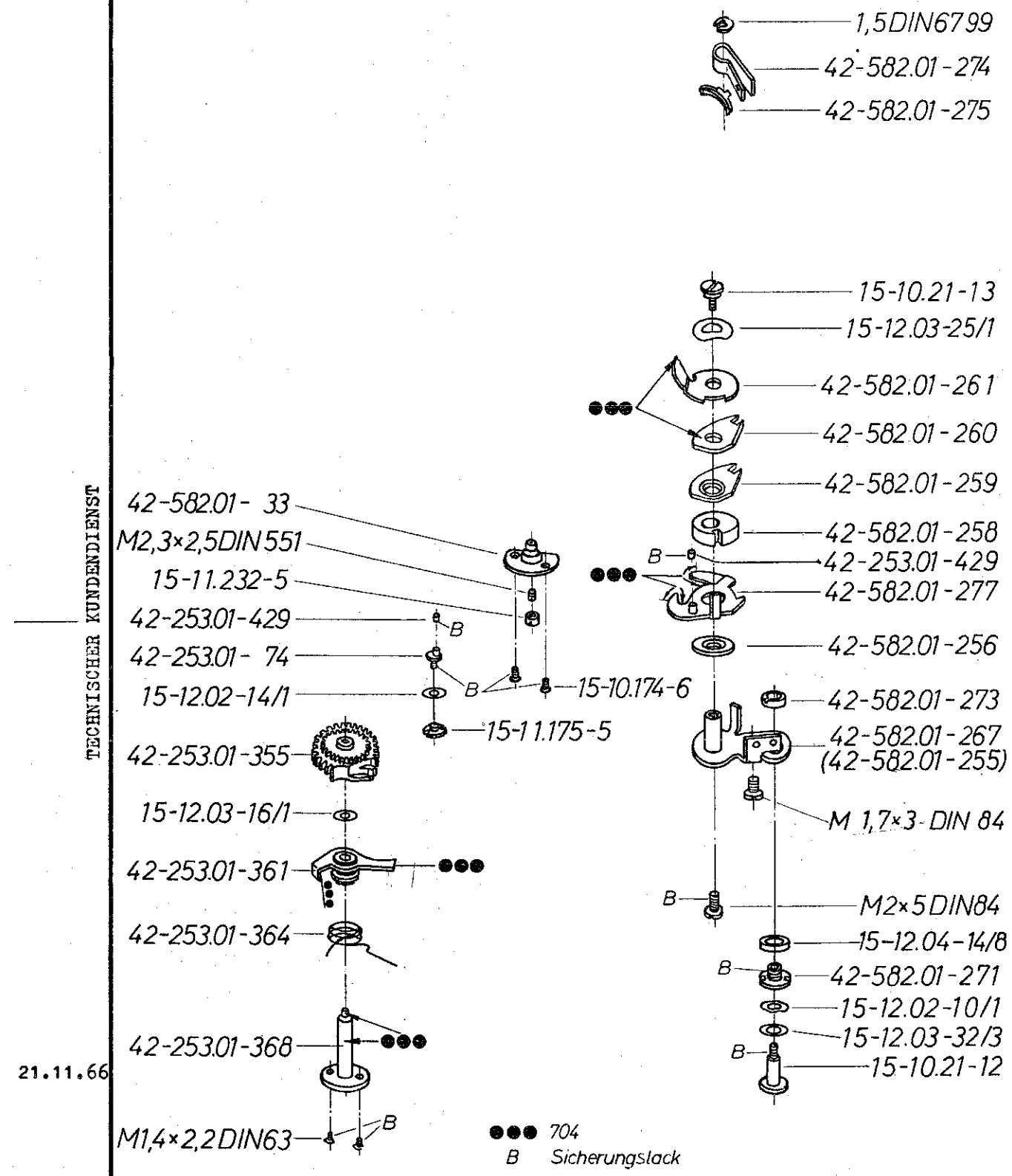

TECHNISCHER KUNDENDIENST

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Ernst Leitz GmbH Wetzlar	Leica M2-947501...	42-582/12.2

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
15-12.03 -25/1	Federscheibe spring disc	1	-	1
15-12.03 -32/3	Unterlegscheibe, bei Bedarf washer, when needed	1	1	1
15-12.04 -14/8	Scheibe, 0,8 mm dick washer, 0.8 mm thick	1	-	1
1,5 DIN 6799	Sicherungsscheibe retaining washer	1	1	1

42-582/12.2 **Leica M2 947501...**

Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	Leica - Model M2	M3	M1
42-253.01- 74	Exzenter eccenter	1	1	1
42-253.01-355	Zwischenrad, mont. intermediate gear, ass.	1	1	1
42-253.01-361	Sperrklinke, mont. arresting lever, oss.	1	1	1
42-253.01-364	Feder spring	1	1	1
42-253.01-368	Zwischenradachse intermediate gear shaft	1	1	1
42-253.01-429	Isolierhaube insulation cap	2	2	2
42-582.01- 33	Achslager bearing bushing	1	-	1
42-582.01-256	Friktionsscheibe friction washer	1	-	1
42-582.01-258	Bremsklotz brake disc	1	-	1
42-582.01-259	Zwischenscheibe intermediate plate	1	-	1
42-582.01-260	Friktionsscheibe friction plate	1	-	1
42-582.01-261	Bremsscheibe brake	1	-	1
42-582.01-271	Lager bearing	1	-	1
42-582.01-273	Exzenter eccenter	1	-	1
42-582.01-274	Bremsfeder brake spring	1	-	1
42-582.01-275	Bremskufe brake runner	1	-	1
42-582.01-277	Bremsscheibe, genietet brake plate, riveted	1	-	1
42-582.01-449	Bremse, kompl. / brake, compl.	1	-	1
42-582.01-470	Lagerblech, genietet bearing plate, riveted	1	-	1
M1,4x2,2 DIN 63	Schraube,brüniert / screw,burnished	2	2	2
M 1,7x3 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	1	1	1
M 2 x 5 DIN 84	Schraube, brüniert screw, burnished	1	-	1
M2,3 x 2,5 DIN 551	Gewindestift, brüniert grub screw, burnished	1	1	1
15-10.174- 6	Schraube, brüniert screw, burnished	2	2	2
15-10.21 -12	Ansatzschraube, brüniert shoulder screw, burnished	1	-	1
15-10.21 -13	Ansatzschraube, brüniert shoulder screw, burnished	1	-	1
15-11.175- 5	Mutter, gebeizt nut, corroded	1	1	1
15-11.232- 5	Mutter, gebeizt nut, corroded	1	1	1
15-12.02 -10/1	Sattelfeder saddle spring	1	1	1
15-12.02 -14/1	Scheibe washer	1	1	1
15-12.03 -16/1	Unterlegscheibe, nach Bedarf washer, when needed			

TECHNISCHER KUNDENDIENST

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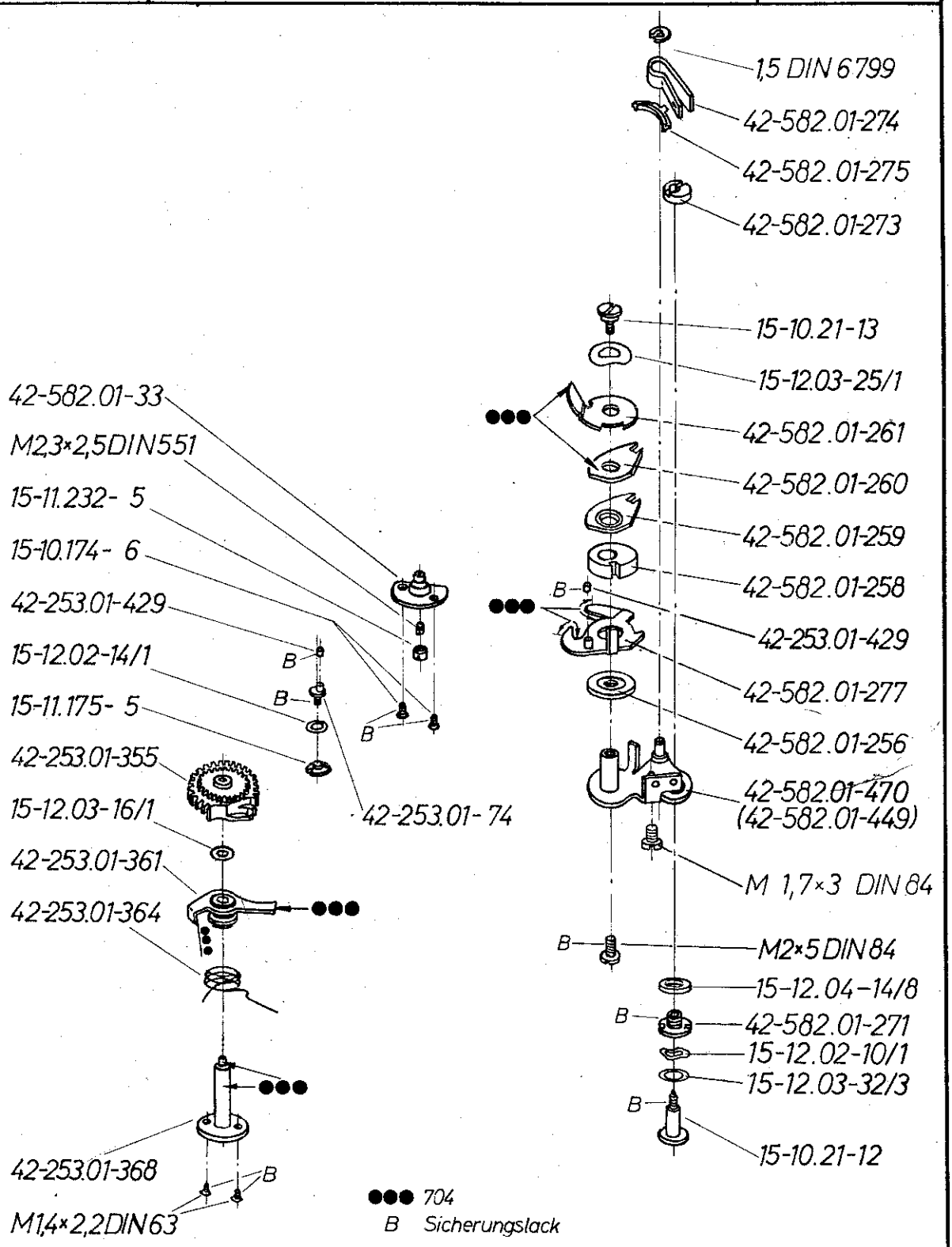

TECHNISCHER KUNDENDIENST

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42-582/13.1 **Leica M2 926 001...** Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3
42-253.01-232	Rollowalze, komplett shutter roller, complete	1	1
42-253.01-246	kleine Rollowalze, komplett smaller shutter roller, complete	1	1
42-253.01-257	Achslager, montiert bearing bushing, ass.	2	2
42-253.01-273	Rollotuch, kurz geklebt shutter, curtain - short (glued)	1	1
42-253.01-913	Klemmleiste clamping ledge	1	1
42-253.01-923	Rollotuch, lang geklebt shutter, curtain - long (glued)	1	1
42-582.01-188	Verschluß, komplett shutter, complete	1	-
42-582.01-199	große Rollowalze, montiert main roller, ass.	1	-
M 1,4 x 3 DIN 63	Senkschraube, brüniert countersunk screw, burnished	2	2

TECHNISCHER KUNDENDIENST

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Krüger

IV 1058

Ernst Leitz G m b H Wetzlar	Servicing Instructions for the Leica M 2	42-582

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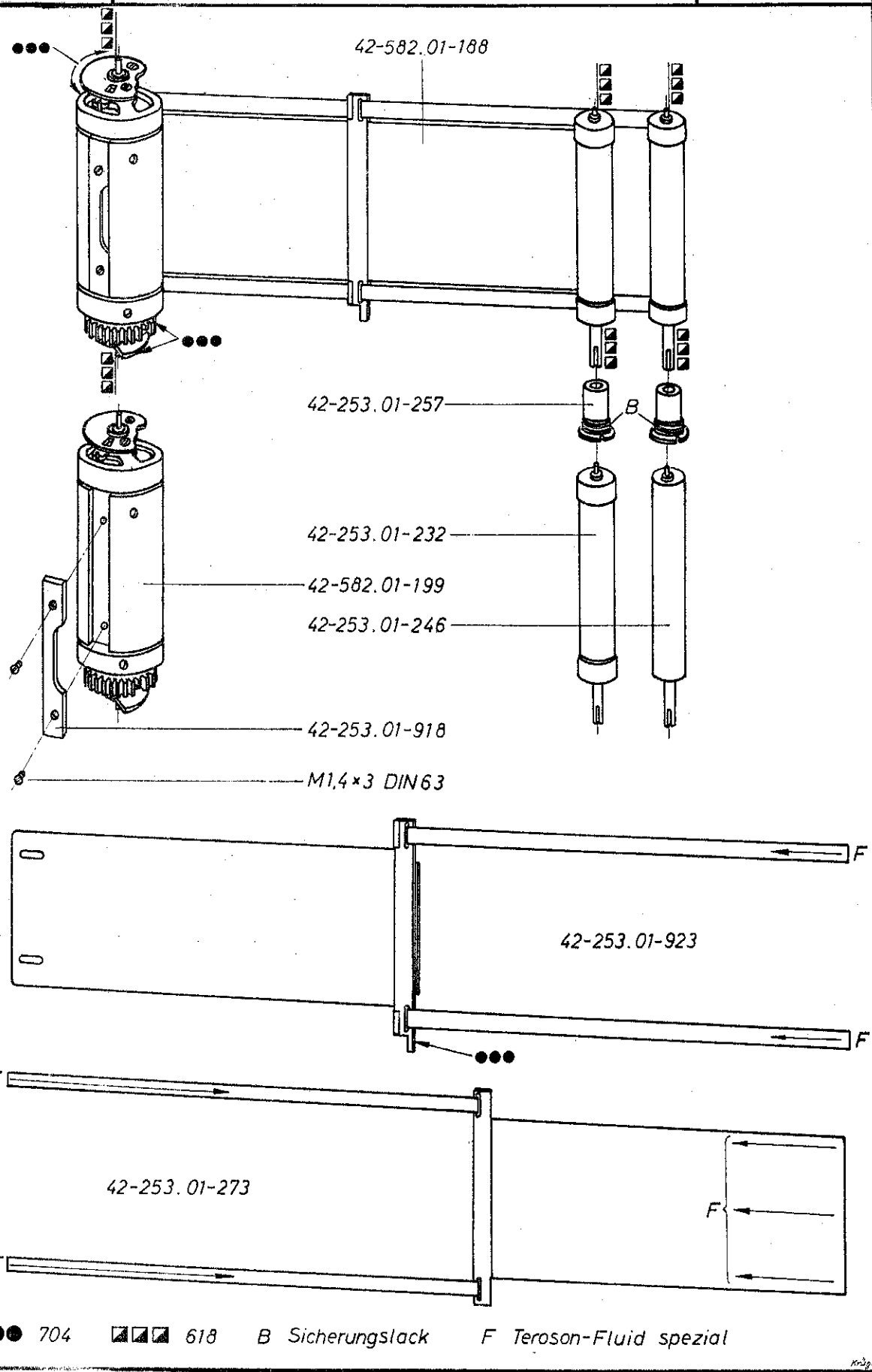

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TECHNISCHER KUNDENDIENST

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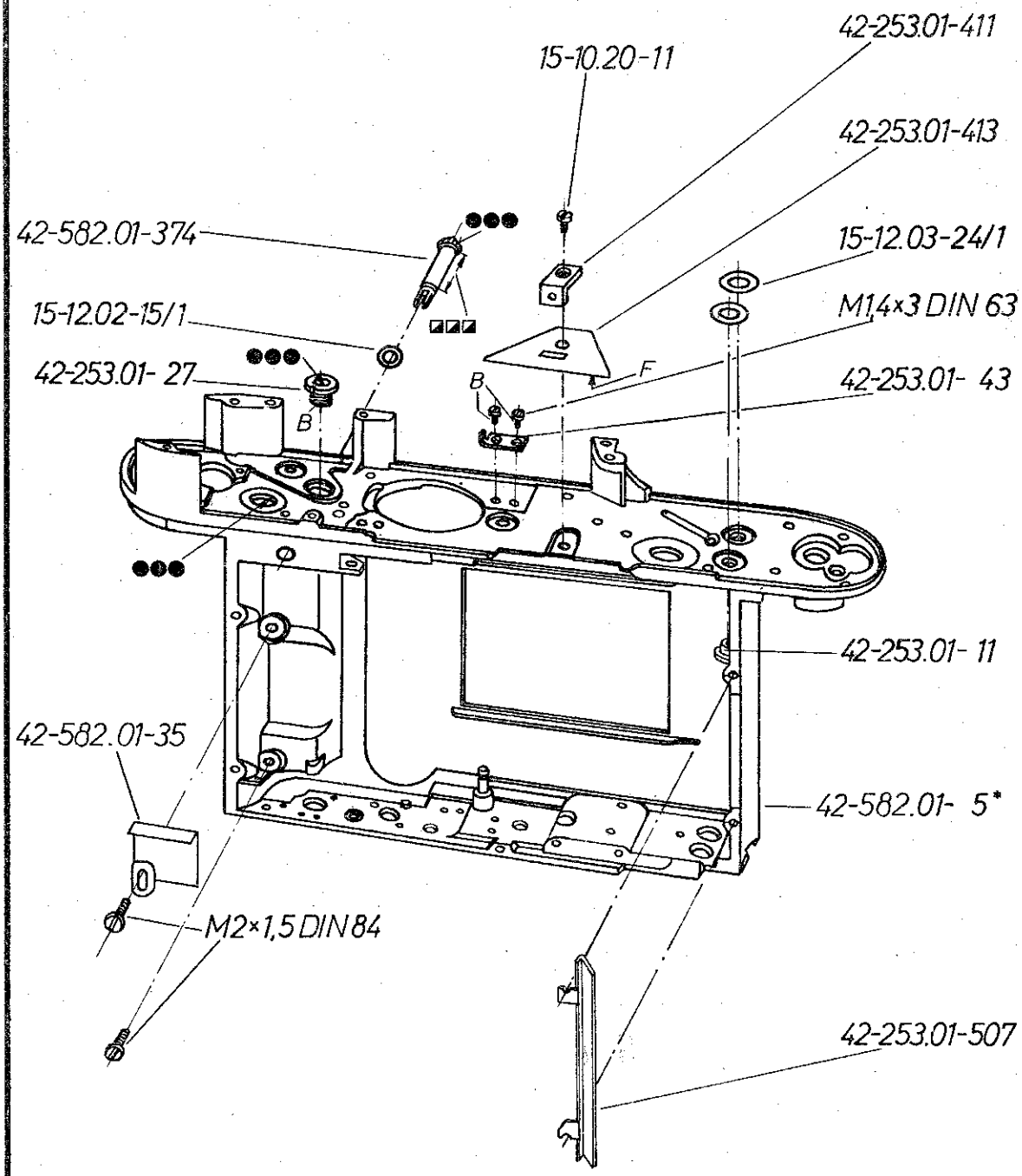
42-582/14.1	Leica M2 - 926001...947 500	Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	 M3
42-253.01- 11	Exzenter eccenter	2	2
42-253.01- 27	Lager bearing	1	1
42-253.01- 43	Anschlag stop	1	1
42-253.01-411	Anlagewinkel angle bracket	1	1
42-253.01-413	Abdichtung sealing	1	1
42-253.01-507	Lichtleiste light shield	1	1
42-582.01- 5	Hauptkörper main body	1	-
42-582.01- 35	Abdeckblech sealing plate	1	-
42-582.01-374	Achse shaft	1	-
M1,4x3 DIN 63	Senkschraube, brüniert countersunk screw, burnished	2	2
M2 x 1,5 DIN 84	Schraube, brüniert screw, burnished	2	-
15-10.20 -11	Schraube, brüniert screw, burnished	1	1
15-12.02 -15/1	Scheibe washer	1	1
15-12.03 -24/1	Scheibe washer	2	2

1. 3.62



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F Teroson-Fluid spezial

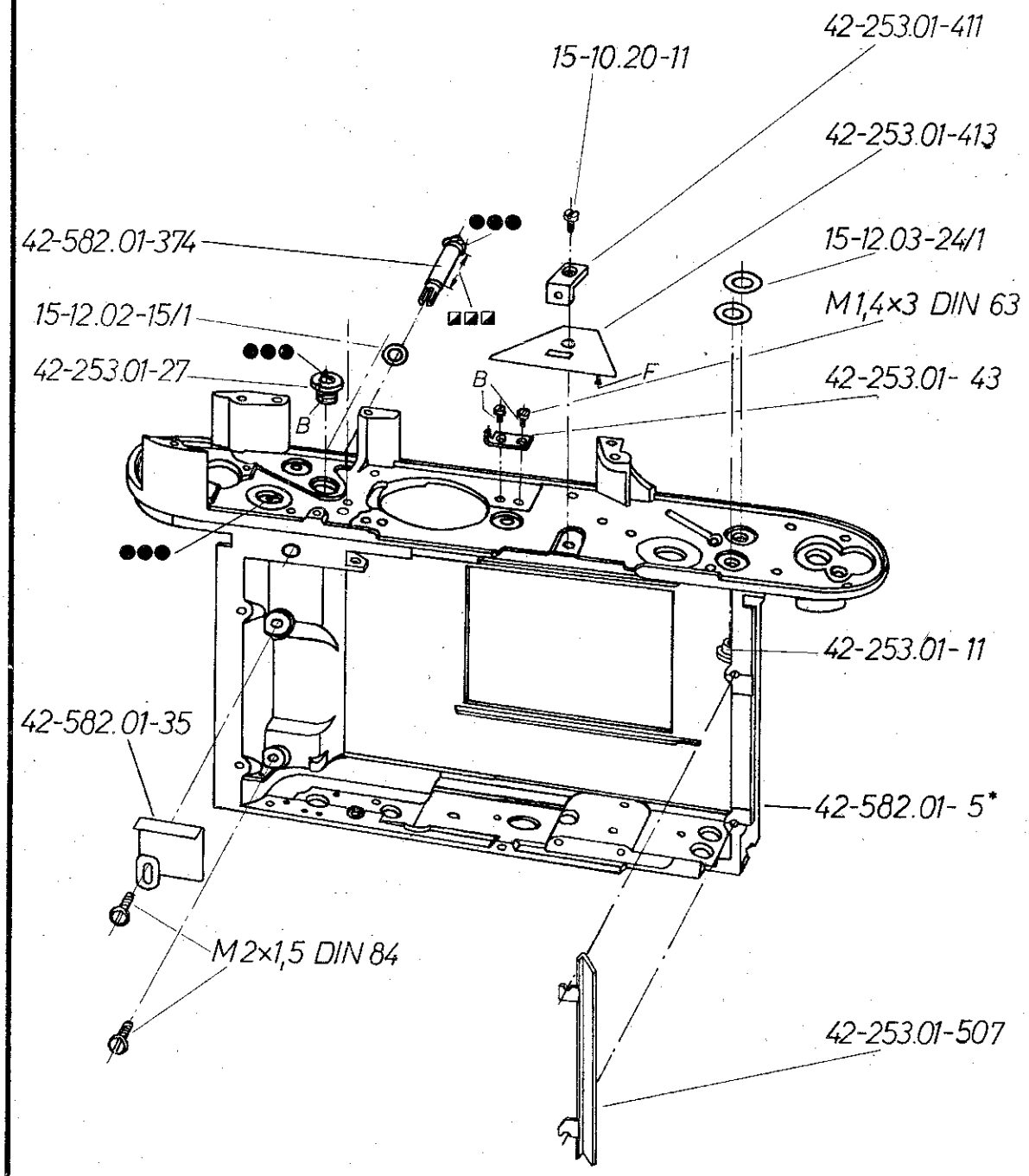
*siehe Reparaturanleitung, Blatt 55.1
see servicing instruction, sheet 55.1

1.3.62

42-582/14.2	Leica M2 - 947 501...970 260	Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
42-253.01- 11	Exzenter eccenter	2	2	2
42-253.01- 27	Lager bearing	1	1	1
42-253.01- 43	Anschlag stop	1	1	1
42-253.01-411	Anlagewinkel angle bracket	1	1	1
42-253.01-413	Abdichtung sealing	1	1	1
42-253.01-507	Lichtleiste light shield	1	1	1
42-582.01- 5	Hauptkörper main body	1	-	1
42-582.01- 35	Abdeckblech sealing plate	1	-	1
42-582.01-374	Achse shaft	1	-	1
M1,4 x 3 DIN 63	Senkschraube, brüniert countersunk screw, burnished	2	2	2
M 2 x 1,5 DIN 84	Schraube, brüniert screw, burnished	2	-	2
15-10.20-11	Schraube, brüniert screw, burnished	1	1	1
15-12.02-15/1	Scheibe washer	1	1	1
15-12.03-24/1	Scheibe washer	2	2	2

1.3.62



1. 3. 62

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●●● 704
B Sicherungslack
F Teroson-Fluid spezial

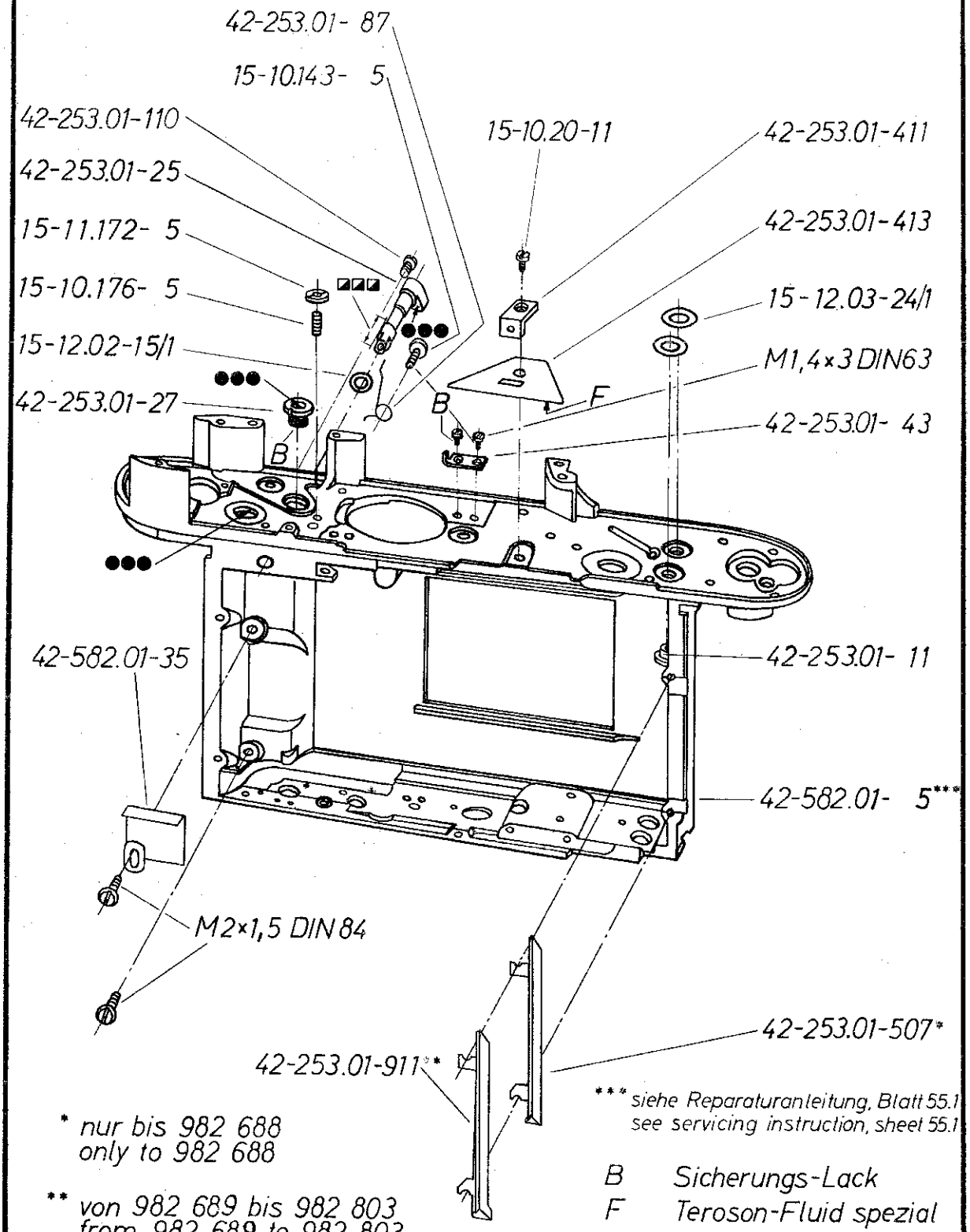
* siehe Reparaturanleitung, Blatt 55.1
see servicing instruction, sheet 55.1

42-582/14.3	Leica M2 - 970 261 ... 1 004 150	Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
42-253.01- 11	Exzenter eccenter	2	2	2
42-253.01- 25	Achse shaft	1	1	1
42-253.01- 27	Lager bearing	1	1	1
42-253.01- 43	Anschlag stop	1	1	1
42-253.01- 87	Drehungsfeder special spring	1	1	1
42-253.01-110	Schraube, brüniert nach Bedarf, Kopfdurchmesser 2,6; 2,7; 2,8 ... 3,3; 3,4; 3,5 mm screw, burnished when needed, screw head diameter 2.6; 2.7; 2.8 ... 3.3; 3.4; 3.5 mm	1	1	1
42-253.01-411	Anlagewinkel angle bracket	1	1	1
42-253.01-413	Abdichtung sealing	1	1	1
42-253.01-507	Lichtleiste light shield	1	1	1
42-253.01-911	Lichtleiste light shield	1	1	1
42-582.01- 5	Hauptkörper main body	1	1	1
42-582.01- 35	Abdeckblech sealing plate	1	-	1
M 1,4 x 3 DIN 63	Senkschraube, brüniert countersunk screw, burnished	2	2	2
M 2 x 1,5 DIN 84	Schraube, brüniert screw, burnished	2	-	2
15-10.143- 5	Schraube, brüniert screw, burnished	1	1	1
15-10.176- 5	Gewindestift, brüniert grub screw, burnished	1	1	1
15-10.20 -11	Schraube, brüniert screw, burnished	1	1	1
15-11.172- 5	Mutter, gebeizt nut, corroded	1	1	1
15-12.02 -15/1	Scheibe washer	1	1	1
15-12.03 -24/1	Scheibe washer	2	2	2

1.10.62

Ernst Leitz GmbH Wetzlar	Leica M2 - 970 261...1004 150	42-582/14.3



* nur bis 982 688
only to 982 688

** von 982 689 bis 982 803
from 982 689 to 982 803
ab 982 804 ohne 42-253.01-911
from 982 804 without 42-253.01-911

*** siehe Reparaturanleitung, Blatt 55.1
see servicing instruction, sheet 55.1

B Sicherungs-Lack
F Teroson-Fluid spezial
●●● 704
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42-582/14.4

Leica M2-1004 151...

Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M2	M1
42-257.01- 11	Exzenter eccenter	2	2	2
42-255.01- 25	Achse shaft	1	1	1
42-253.01- 27	Lager bearing	1	1	1
42-253.01- 42	Anschlag stop	1	1	1
42-253.01- 87	Drehungsfeder special spring	1	1	1
42-253.01-110	Schraube, brüniert nach Bedarf, Kopfdurchmesser 2,6; 2,7; 2,8 ... 3,3; 3,4; 3,5 mm screw, burnished when ordered, head diameter 2.6; 2.7; 2.8 ... 3.3; 3.4, 3.5 mm	1	1	1
42-253.01-411	Anlagewinkel angle bracket	1	1	1
42-253.01-412	Abflachung coining	1	1	1
42-250.01- 5	Hauptfeder main spring	1	1	1
M 1,4 x 3,2 DIN 84	Linsenschraube, brüniert countersunk screw, burnished	2	2	2
15-10.103- 5	Schraube, brüniert screw, burnished	1	1	1
15-10.176- 5	Gewindestift, brüniert grub screw, burnished	1	1	1
15-10.20 -11	Schraube, brüniert screw, burnished	1	1	1
15-11.172- 6	Futter, gebeizt nut, enameled	1	1	1
15-12.02-15/1	Schraube screw	1	1	1
15-12.0[illegible]-24/1	Schraube screw	2	2	2

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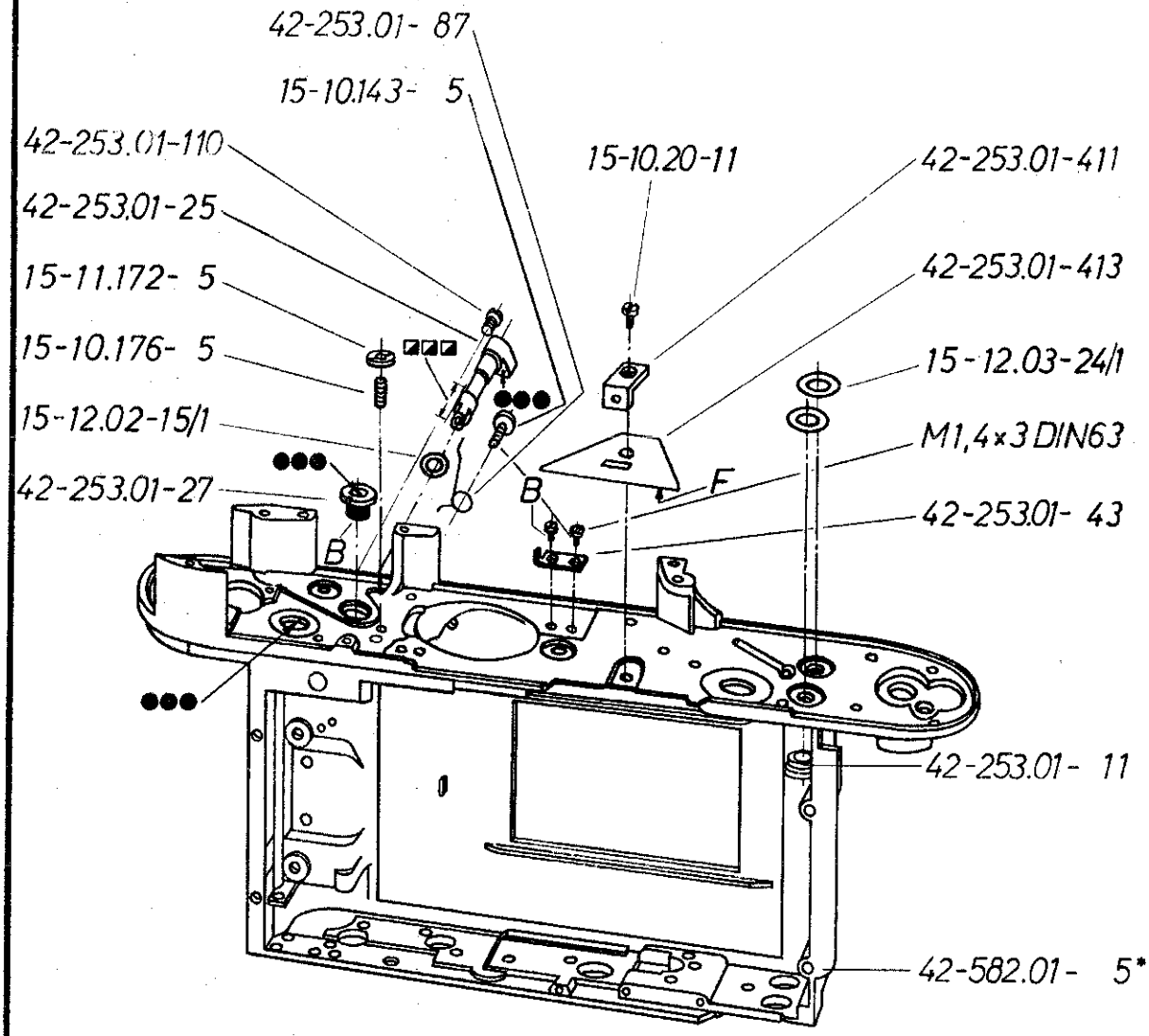

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●●● 704
B Sicherungs-Lack
F Teroson-Fluid spezial

* siehe Reparaturanleitung, Blatt 55.1
see servicing instruction, sheet 55.1

Anmerkung

In der Ersatzteilliste zur Leica M1 sind nur die Blätter aufgeführt, auf denen Abweichungen gegenüber der Leica M2 zu verzeichnen sind.

Die auf Blatt 42-582/5 dargestellten Motivsucherteile fallen für Leica M1 mit allen auf diesem Blatt dargestellten Teilen weg.

Die Reparaturanleitung zur Leica M1 bezieht sich nur auf die von der Leica M2 abweichenden Arbeitsgänge der Montage, Justierung und Reparatur.

Hinweise auf Reinigung der Einzelteile, Schmiermittel, Klebemittel und Ersatzteilbestellung siehe Einführung zur Ersatzteilliste zur Leica M2.

Notes

The spare parts list for the Leica M1 only contains those sheets which differ from the corresponding sheets for the Leica M2.

The components of the finder frame selector shown on sheet 42-582/5 are omitted on the Leica M1, together with all parts shown on that sheet.

The servicing instructions for the Leica M1 only cover those operations of assembly, adjustment, and repair, which differ from the Leica M2.

For notes on cleaning of individual components, lubricants, adhesives, and ordering of spare parts, see the introduction to the spare parts list for the Leica M2.

1.7.59

Ernst Leitz G m b H Wetzlar	Servicing Instructions for the Leica M 2	Sheet 50 - 99

Index of Servicing Instruction Sheets

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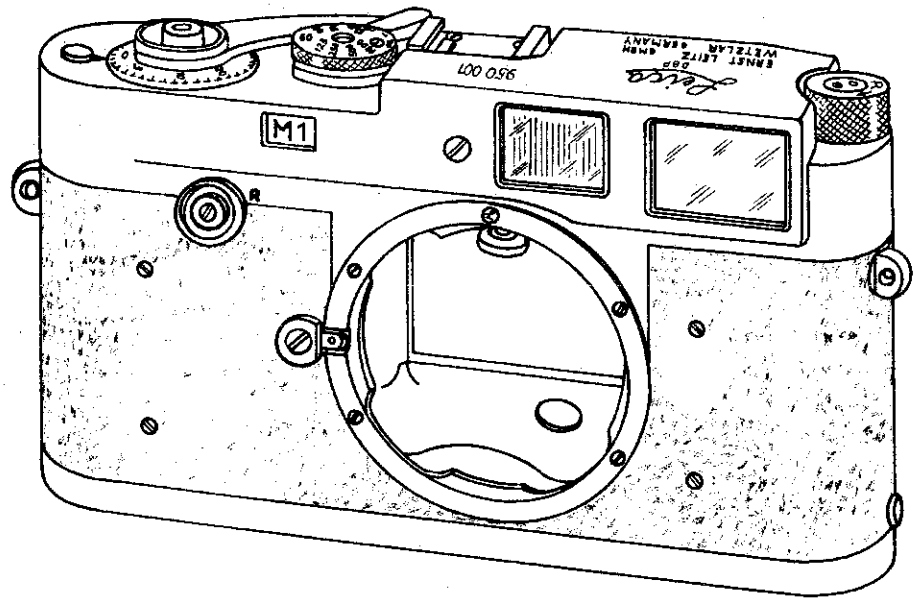
Possibilities for the use of main body, housing and light-rim	55	
Eliminating the entrance of stray light into the housing	56	
Removing malfunctions (LEICA MD)	57	
Elimination of light leak on the rangefinder	58	

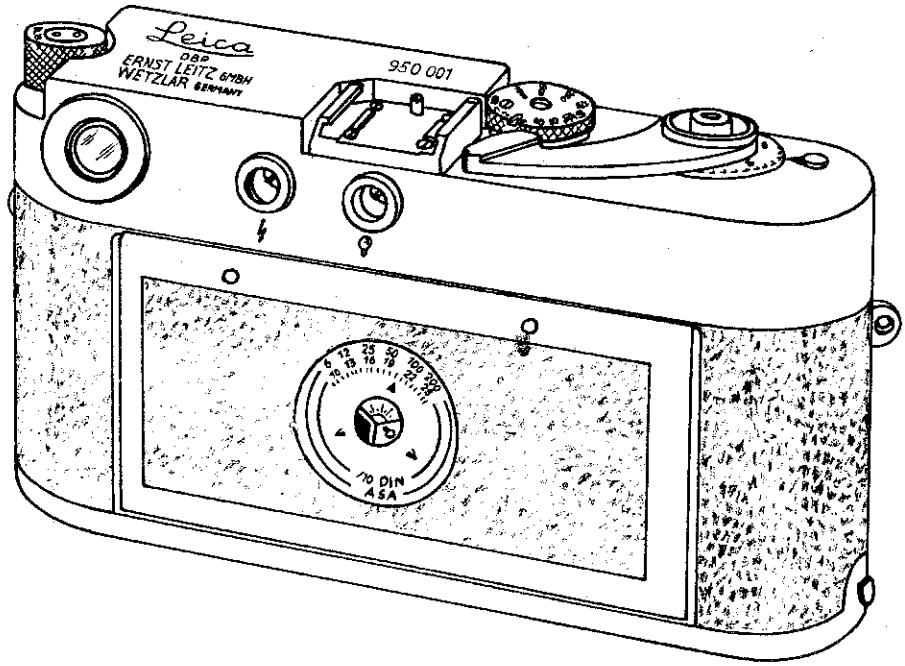
TECHNISCHER KUNDENDIENST

21.11.66

Kröger

Ernst Leitz GmbH Wetzlar	Leica M1 - 950 001...966 729	42-653/15.1





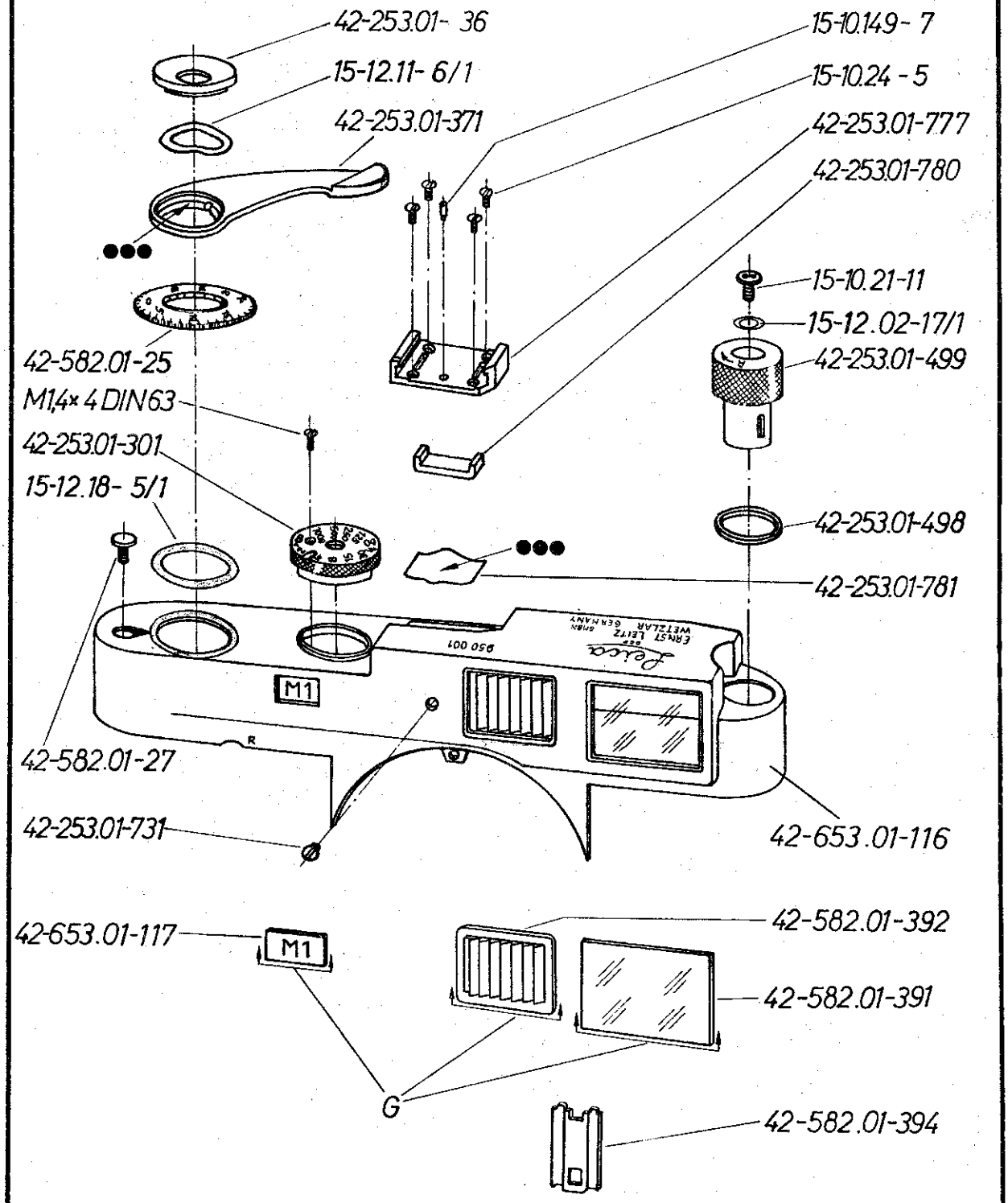
42-653/16.1

Leica M1-950 001...

Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M1	M2	M3
42-253.01- 36	Schraubring screw ring	1	1	1
42-253.01-301	Schlitzstellknopf speed dial	1	1	1
42-253.01-371	Aufzughebel winding lever	1	1	1
42-253.01-498	Vorschraubring retaining ring	1	1	1
42-253.01-499	Rückwickelknopf rewind knob	1	1	1
42-253.01-731	Verschlußschraube cover screw	1	1	1
42-253.01-777	Befestigungsklemme acc. clip	1	1	1
42-253.01-780	Druckbacke pressure plate	1	1	1
42-253.01-781	Druckfeder pressure spring	1	1	1
42-582.01- 27	Schraube screw	1	1	-
42-582.01- 25	Zählscheibe counting disc	1	1	-
42-582.01-391	Fenster, linkes window, left	1	1	-
42-582.01-392	Beleuchtungsfenster illuminating window	1	1	-
42-582.01-394	Halteleiste stop bracket	1	1	-
42-653.01-116	Deckkappe, vollst. cover plate, complete	1	-	-
42-653.01-117	Blindfenster blind window	1	-	-
M1,4 x 4 DIN 63	Senkschraube, verchromt countersunk screw, chrome-plated	1	1	1
15-10.149- 7	Anschlagschraube, verchromt stop screw, chrome-plated	1	1	1
15-10.21 -11	Schraube, verchromt screw, chrome-plated	1	1	1
15-10.24 - 5	Befestigungsschraube, verchromt screw, chrome-plated	4	4	4
15-12.02-17/1	Federscheibe, brüniert spring washer, burnished	1	1	1
15-12.11- 6/1	Feder spring	1	1	1
15-12.18- 5/1	Dichtungsscheibe sheet gasket	1	1	-

1. 3.62



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42-653/17.1	Leica M1 - 950 001...966 729	Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M1	M2	M3
42 216 -460	Öse eyelet	2	2	-
42-253.01-535	Anschlagring flange ring	1	1	1
42-253.01-539	Druckfeder pressure spring	1	1	1
42-253.01-540	Führungsbolzen guide bolt	1	1	1
42-253.01-560	Niet rivet	1	1	1
42-253.01-565	Dichtungsstreifen sealing strip	1	1	1
42-253.01-609	Niet rivet	1	1	1
42-253.01-613	Raststück stop lever	1	1	1
42-253.01-773	Federring, genietet spring ring, riveted	1	1	1
42-253.01-904	Filzstreifen feld strip	2	2	2
42-582.01- 19	Druckknopf pressure knob	1	1	-
42-582.01-331	Führungsbuchse guide bush	1	1	-
42-582.01-375	Druckfeder pressure spring	1	1	-
42-582.01-376	Hülse sleeve	1	1	-
42-653.01-104	Gehäuse, vollständig housing, complete	1	-	-
42-653.01-107	Gehäuse, genietet housing, riveted	1	-	-
1,5 DIN 6799	Sicherungsscheibe retaining washer	1	1	1
M 2 x 4 LN 120 21	Schraube, brüniert screw, burnished	1	1	1
15-10.170- 9	Schraube, verchromt screw, chrome-plated	4	4	4
15-10.170-10	Schraube, brüniert screw, burnished	1	1	1
15-10.175- 8	Schraube, verchromt screw, chrome-plated	1	1	-
15-10.21 -10	Schraube, brüniert screw, burnished	4	4	4
15-10.22 - 6	Schraube, schwarz halbmatt screw, black semimat	4	4	4
15-10.25 - 7	Schraube, verchromt screw, chrome-plated	1	1	1

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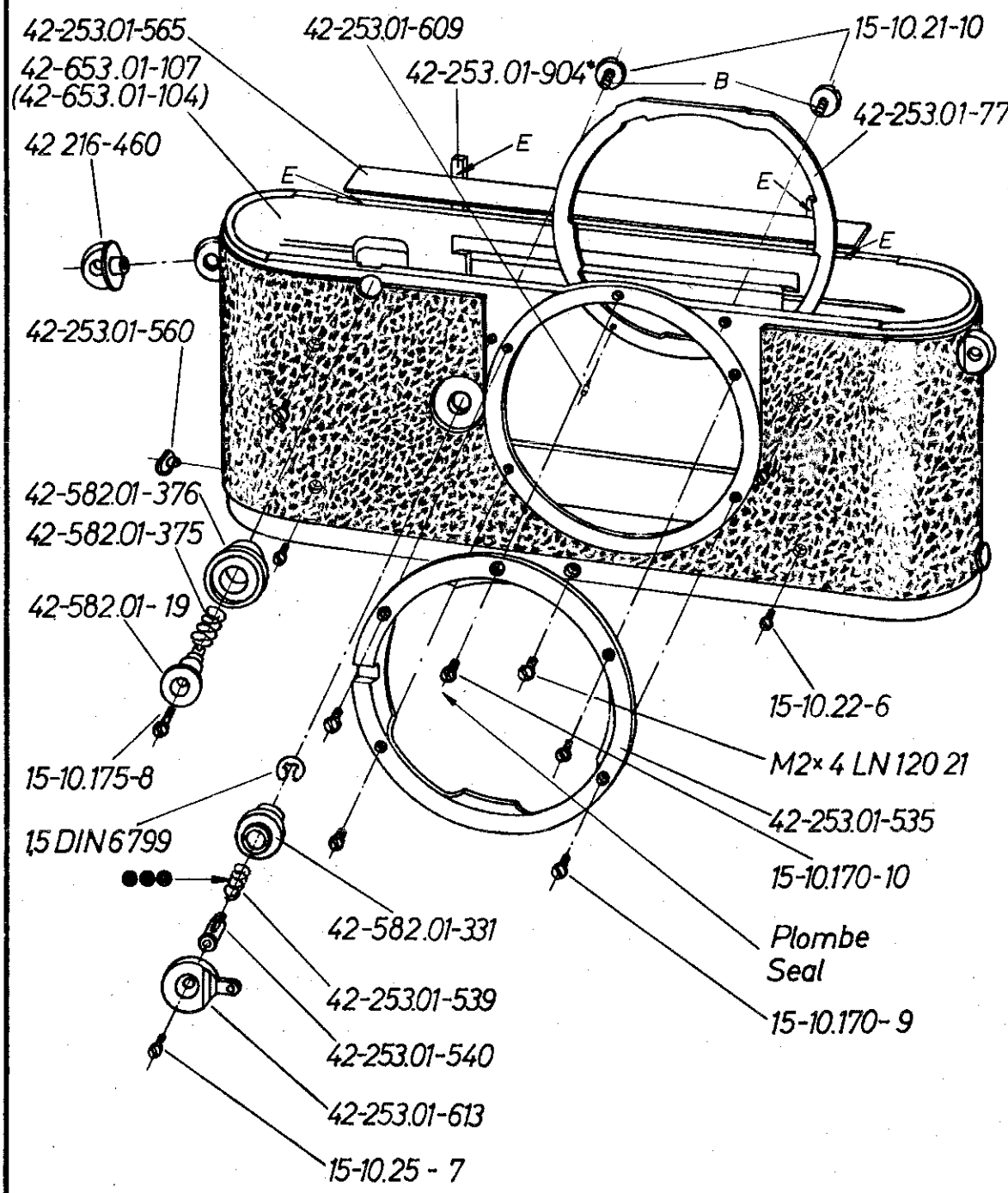

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* siehe Reparaturanleitung, Blatt 56.1
see servicing instruction, sheet 56.1

42-653/17.2 **Leica M1-966 730...** **Ernst Leitz GmbH Wetzlar**

Bestell-Nr Part-No	Benennung Description	Leica - Modell M1	M2	M3
42 216 -460	Öse eyelet	2	2	2
42-253.01-116	Hebel, kompl. lever, compl.	1	1	1
42-253.01-535	Anschlagring flange ring	1	1	1
42-253.01-539	Druckfeder pressure spring	1	1	1
42-253.01-540	Führungsbolzen guide bolt	1	1	1
42-253.01-560	Niet rivet	1	1	1
42-253.01-565	Dichtungsstreifen sealing strip	1	1	1
42-253.01-609	Niet rivet	1	1	1
42-253.01-612	Führungsbuchse guide bush	1	1	1
42-253.01-613	Raststück stop lever	1	1	1
42-253.01-773	Federring, genietet spring ring, riveted	1	1	1
42-253.01-904	Filzstreifen feld strip	2	2	2
42-653.01-104	Gehäuse, vollständig housing, complete	1	-	-
42-653.01-107	Gehäuse, genietet housing, riveted	1	-	-
1,5 DIN 6799	Sicherungsscheibe retaining washer	1	1	1
M 2 x 4 LN 120 21	Schraube, brüniert screw, burnished	1	1	1
15-10.170- 9	Schraube, verchromt screw, chrome-plated	4	4	4
15-10.170-10	Schraube, brüniert screw, burnished	1	1	1
15-10.172- 6	Schraube, verchromt screw, chrome-plated	1	1	1
15-10.21 -10	Schraube, brüniert screw, burnished	4	4	4
15-10.22 - 6	Schraube, schwarz halbmatt screw, black semimat	4	4	4
15-10.25 - 7	Schraube, verchromt screw, chrome-plated	1	1	1
15-12.06 -17/1	Scheibe, bei Bedarf washer, when needed			

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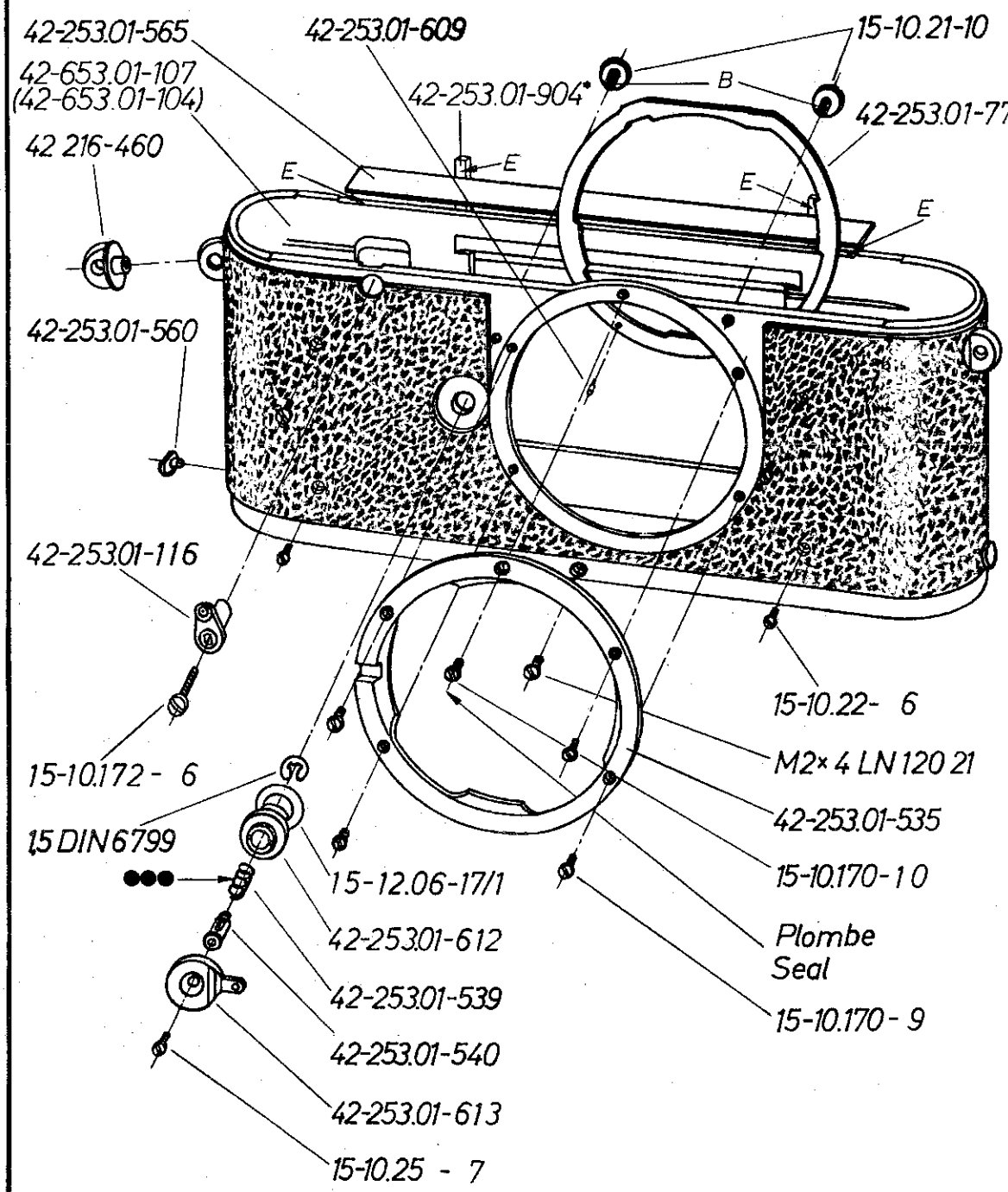

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B Sicherungslack
E Kleber EC 880

* siehe Reparaturanleitung, Blatt 56.1
see servicing instruction, sheet 56.1

42-653/18.1	Leica M1 950 001...1 102 450	Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	Leica - Modell M1	M2	M3
42-253.01- 83	Blende light shield	1	1	1
42-253.01- 84	Plüschstreifen plush strip	2	2	2
42-253.01-420	Filzstreifen feld strip	1	1	1
42-253.01-488	Lager, kompl. bearing, compl.	1	1	1
42-253.01-489	Rückwickelknopf, kompl. rewind knob, compl.	1	1	1
42-253.01-491	Rückspulachse rewind shaft			
42-253.01-495	Mitnehmer carrier	1	1	1
42-253.01-496	Federrohr spring tube	1	1	1
42-253.01-497	Hülse sleeve	1	1	1
42-253.01-501	Zahnrad gear	1	1	1
42-253.01-502	Mitnehmer carrier	1	1	1
42-253.01-804	Deckscheibe, kompl. cover plate, compl.	1	1	1
42-582.03-112	Spiegel / mirror	1	1	-
42-582.03-159	Lichtschutz / light shield	1	1	-
42-653.02- 1	Sucher, kompl. finder, compl.	1	-	-
42-653.02- 18	Maskenverstellung, Untergruppe mask adjusting device, sub group	1	-	-
42-653.02- 45	Steuerhebel control lever	1	-	-
42-653.02- 46	Ring ring	1	-	-
42-653.02- 48	Zugfeder tension spring	1	-	-
42-653.02- 61	Lichtschutz / light shield	1	-	-
M1,4 x 2 DIN 84	Schraube, verchromt screw, chrome-plated	1	-	-
M1,7 x 3 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2	2	-
2,2 DIN 433 S	Scheibe / washer	1	-	-
M1,7x2,5 LN 12021	Schraube, brüniert screw, burnished	1	1	1
M 2 x 3 LN 120 21	Schraube, brüniert screw, burnished	1	1	1
M 2 x 4 LN 120 21	Schraube, brüniert screw, burnished	2	2	2
AM2 x 2,8 DIN 84	Schraube, brüniert screw, burnished	2	2	2
15-10.20- 8	Schraube, brüniert screw, burnished	2	2	2
15-10.29-20	Schraube, brüniert screw, burnished	1	-	-
15-12.03-15/1	Scheibe washer	1	1	1
15-12.05-32/1	Scheibe washer	1	-	-

TECHNISCHER KUNDENDIENST

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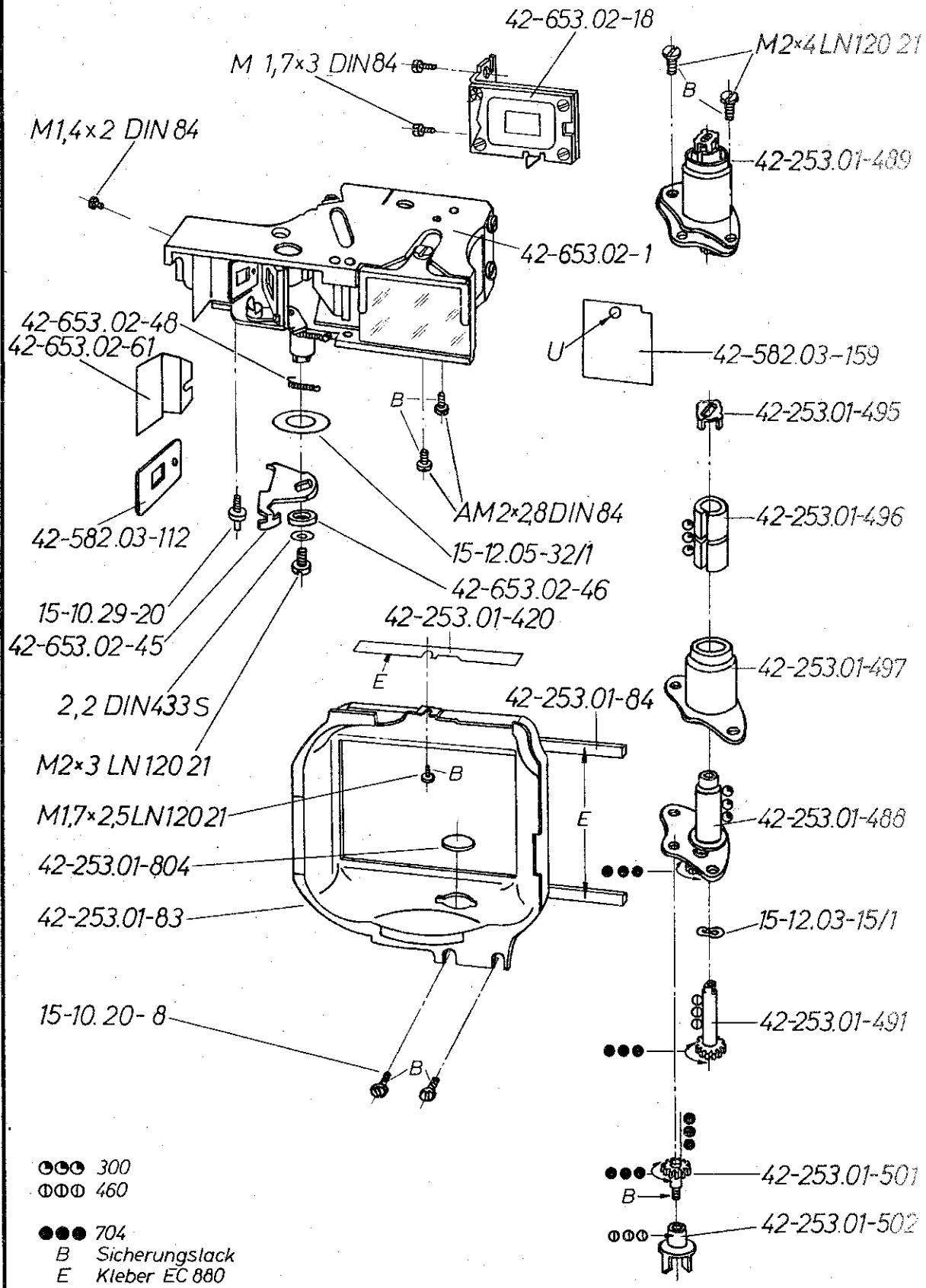

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TECHNISCHER KUNDENDIENST

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42-653/18.2	Leica M1 1102 451...	Leitz WETZLAR						
Bestell-Nr Part-No	Benennung Description	Leica - Modell M1	M2	M3				
42-253.01- 83	Blende light shield	1	1	1				
42-253.01- 84	Plüschstreifen plush strip	2	2	2				
42-253.01-420	Filzstreifen feld strip	1	1	1				
42-253.01-488	Lager, kompl. bearing, compl.	1	1	1				
42-253.01-489	Rückwickelknopf, kompl. rewind knob, compl.	1	1	1				
42-253.01-491	Rückspulachse rewind shaft	1	1	1				
42-253.01-495	Mitnehmer carrier	1	1	1				
42-253.01-496	Federrohr spring tube	1	1	1				
42-253.01-497	Hülse sleeve	1	1	1				
42-253.01-501	Zahnrad gear	1	1	1				
42-253.01-502	Mitnehmer carrier	1	1	1				
42-253.01-804	Deckscheibe, kompl. cover plate, compl.	1	1	1				
42-582.03-112	Spiegel mirror	1	1	-				
42-582.03-159	Lichtschutz light shield	1	1	-				
42-653.02- 1	Sucher, kompl. finder, compl.	1	-	-				
42-653.02- 45	Steuerhebel control lever	1	-	-				
42-653.02- 46	Ring / ring	1	-	-				
42-653.02- 48	Zugfeder tension spring	1	-	-				
42-653.02- 61	Lichtschutz light shield	1	-	-				
42-653.03- 17	Maskenverstellung, Untergruppe mask adjusting device, sub group	1	-	-				
M1,4 x 2 DIN 84	Schraube, verchromt screw, chrome-plated	1	-	-				
2,2 DIN 433 S	Scheibe / washer	1	-	-				
M1,7x2,5 LN 120 21	Schraube, brüniert screw, burnished	1	1	1				
M 2 x 3 LN 120 21	Schraube, brüniert screw, burnished	1	1	1				
M 2 x 4 LN 120 21	Schraube, brüniert screw, burnished	2	2	2				
AM 2 x 2,8 DIN 84	Schraube, brüniert screw, burnished	2	2	2				
15-10.20- 8	Schraube, brüniert screw, burnished	2	2	2				
15-10.29-20	Schraube, brüniert screw, burnished	1	-	-				
15-10.170-5	Zylinderschraube, brüniert cylindrical head screw, burnished	2	2	-				
15-12.03-15/1	Scheibe washer	1	1	1				
15-12.05-32/1	Scheibe washer	1	-	-				

TECHNISCHER KUNDENDIENST

21.11.66

Removing and Refitting the Cover Plate

Sheets 1 and 2

Spanners and Tools

1.	Spanner	42-253.01- 36 W 4
2.	Spanner	42-253.01-157 W 2
3.	Spanner	42-253.01-483 W 8
4.	Spanner	42-253.01-486 W 1
5.	Spanner	42-253.01-494 W 4
6.	Spanner	42-253.01-498 W 2
7.	Pliers	42-582.01- 27 W 1
8.	Servicing stamp	42-253.01-31 760
9.	Wax 637	
10.	Screw driver, 2.5 mm. dia.	
11.	Tweezers	

Sequence of Operations

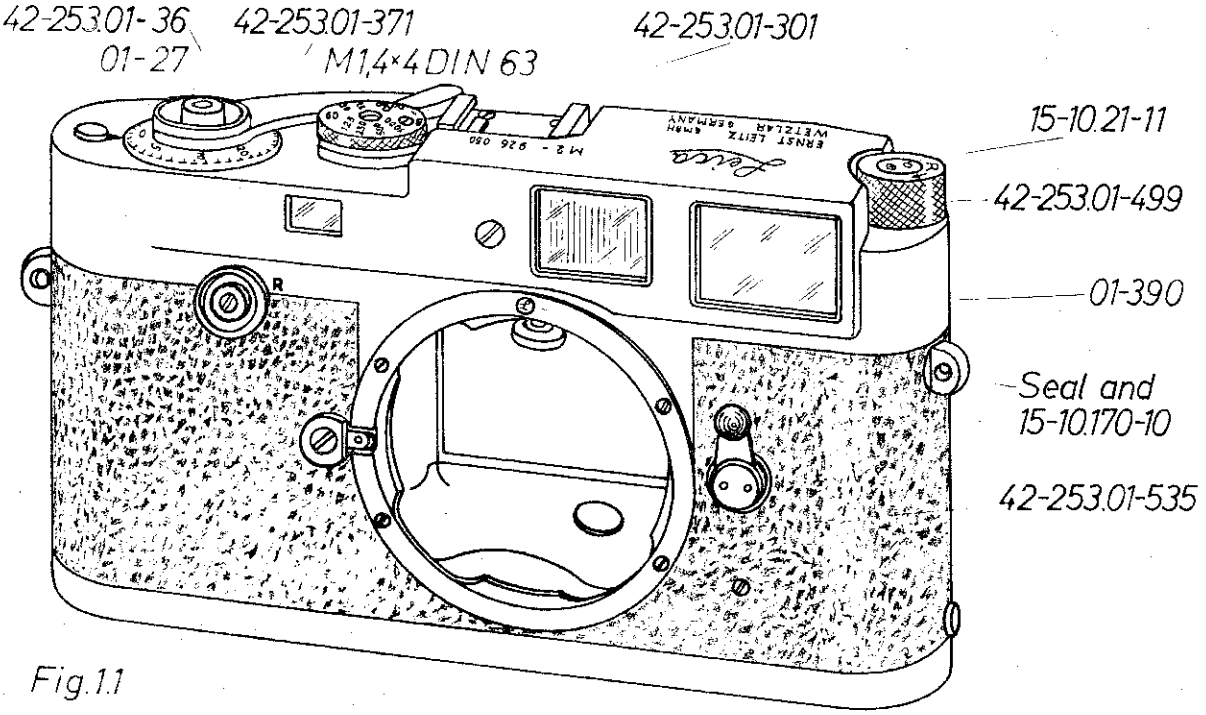


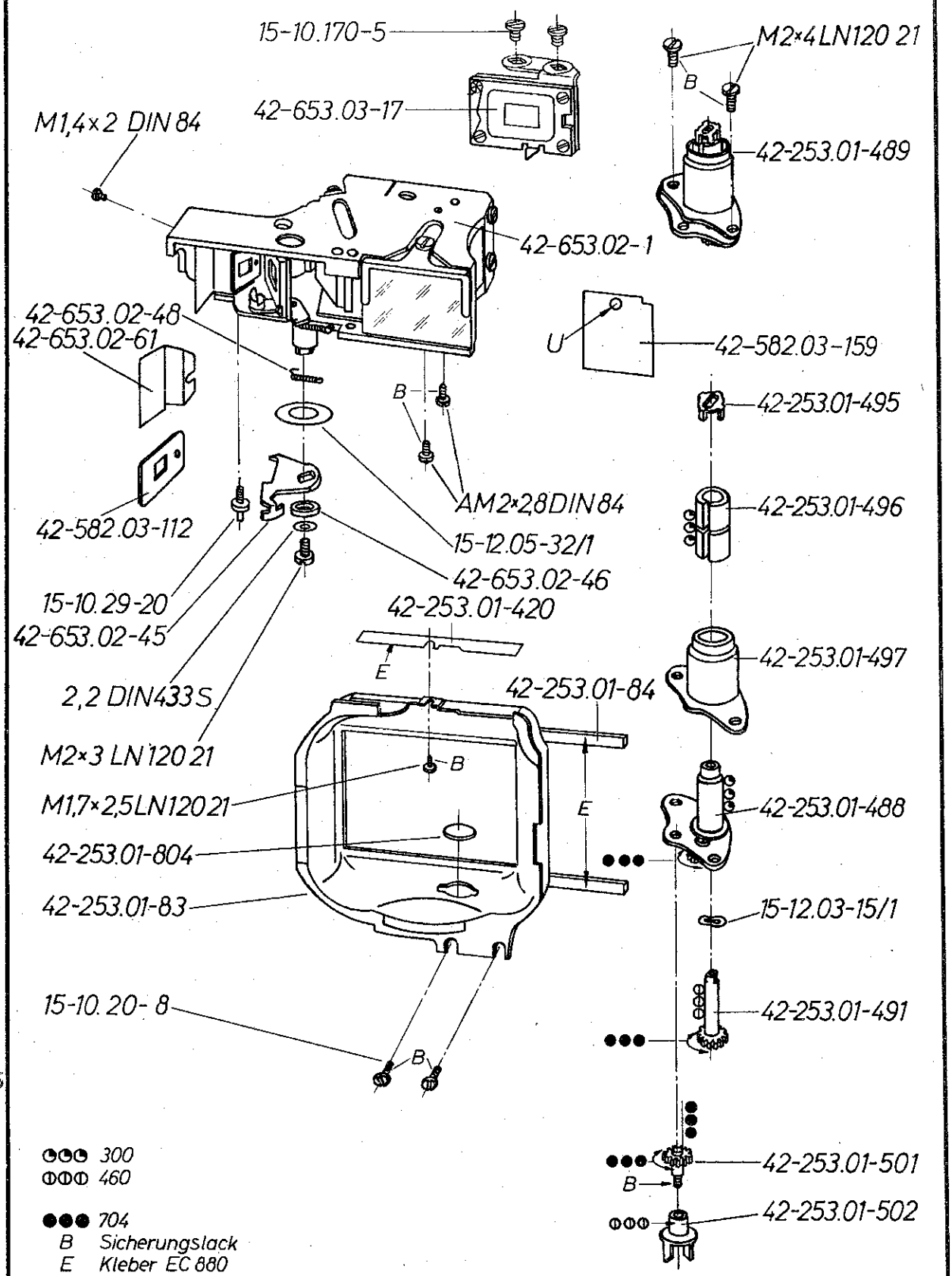
Fig.1.1

Screw 01-27
Unscrew the screw [illegible] with the spanner 42-253.01-27 W1.

Winding lever 42-253.01-371
Unscrew the screw ring 42-253.01-36 with the spanner 42-253.01-36 W4. Lift off the winding lever 42-253.01-371 together with the spring 15-12.11-6/1. Take off the film counter drag 42-582.01-25.

Shutter speed dial 42-253.01-301
Unscrew the screw M 1.4 x 4 DIN 63 on top of the shutter speed dial 42-253.01-301 with the 2.5 mm. dia. screw diver, and take off the shutter speed dial.

Rewind knob 42-253.01-499
Pull up the rewind knob 42-253.01-499 and hold it in this position. Unscrew the screw 15-10.21-11 with the spanner 42-253.01-494 W4. Pull off the rewind knob, and the engaging piece 42-253.01-[illegible]. Remove the screw ring 42-253.01-498 with the spanner 42-253.01-498 W2.



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TECHNISCHER KUNDENDIENST

21.11.66

Removing and Refitting the Cover Plate

Continued from sheet 1

Accessory shoe 42-253.01-777
Unscrew the four screws 15-10.24-5 with the 2.5 mm. dia. screw driver, and lift off the accessory shoe 42-253.01-777.

Flash sockets
Unscrew the two covering rings 42-253.01-486 with the spanner 42-253.01-486 W1. Unscrew the two sockets 42-253.01-483 with the spanner 42-253.01-483 W8.

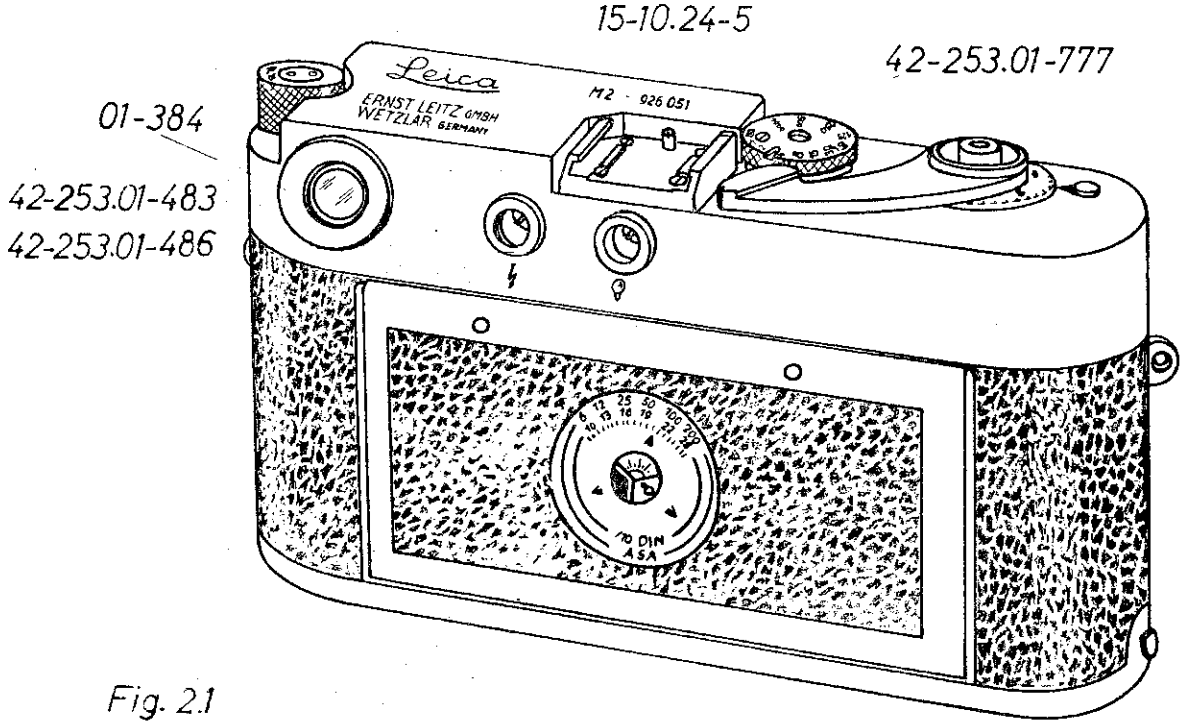


Fig. 2.1

Rangefinder eyepiece
Unscrew the eyepiece lens 42-582.01-384 with the spanner 42-253.01-36 W4.

Cover plate 01-390
Remove the seal from the top centre hole of the bayonet ring 42-253.01-535, and unscrew the unscrew the screw 15-10.170-10 underneath the seal with the 2.5 mm. dia. screw driver.
Lift off the cover plate from above.

Refit the cover plate by proceeding in the reverse order.
Fill the upper mounting hole of the bayonet ring with a wax seal (see fig. 1.1), and mark this seal with the Leica servicing stamp.

Check: Rangefinder (see sheets 7 to 10)
Winding mechanism
Rewinding mechanism

Removing and Refitting the Housing

Sheets 3 and 4

Tools

1. Spanner — 42-582.01-19 W5
2. Servicing stamp — 42-253.01-21 W60
3. Wax 637
4. Screw driver, 2.5 mm. dia.
5. Screw driver, 2.8 mm. dia.
6. Screw driver, 3.2 mm. dia.

Sequence of Operations

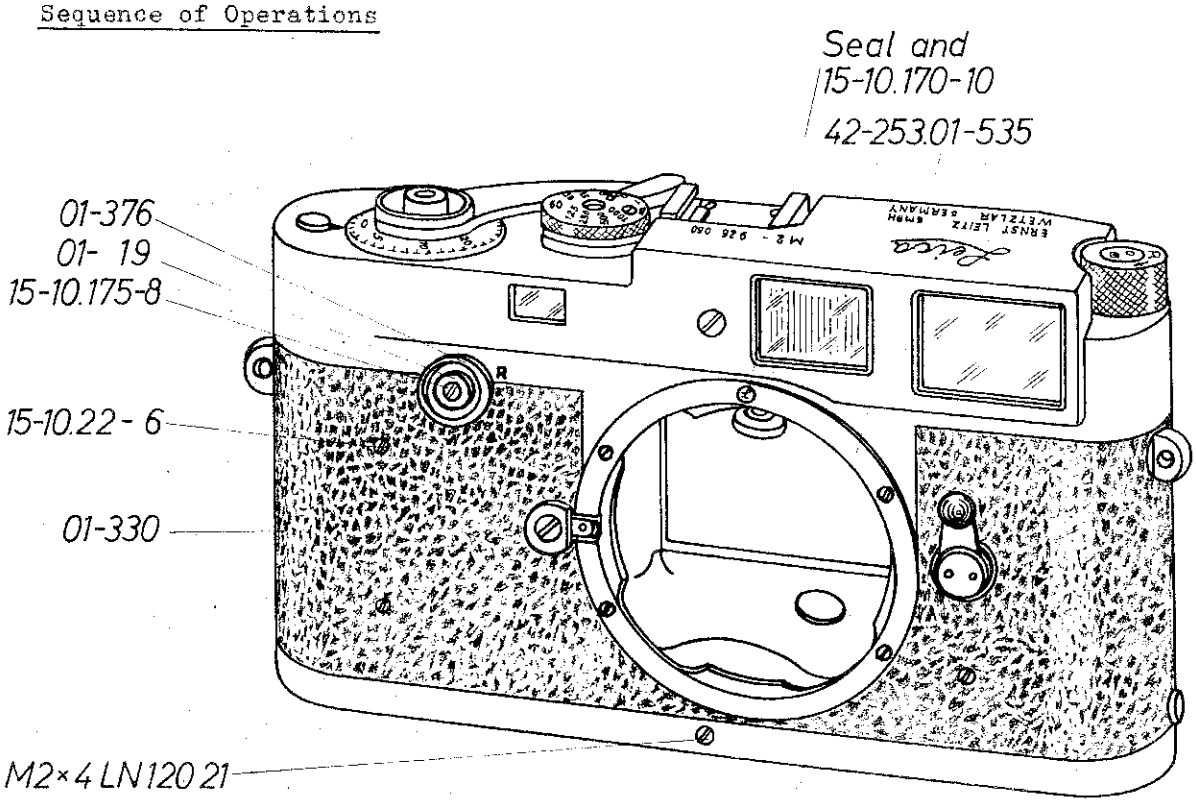


Fig. 3.1

Reversing button
Hold the pressure knob 01-19 with the spanner 42-582.01-19 W5, and unscrew the screw 15-10.175-8 with the 2.8 mm. dia. screw driver. Take off the pressure knob 01-19, the pressure spring 01-375, and the sleeve 01-376.

Removing and Refitting the Housing

Sheets 3 and 4

Tools

1. Servicing stamp 42-253.01-Z1 W60
2. Wax 637
3. Screw driver, 2.5 mm. dia.
4. Screw driver, 2.8 mm. dia.
5. Screw driver, 3.2 mm. dia.

Sequence of Operations

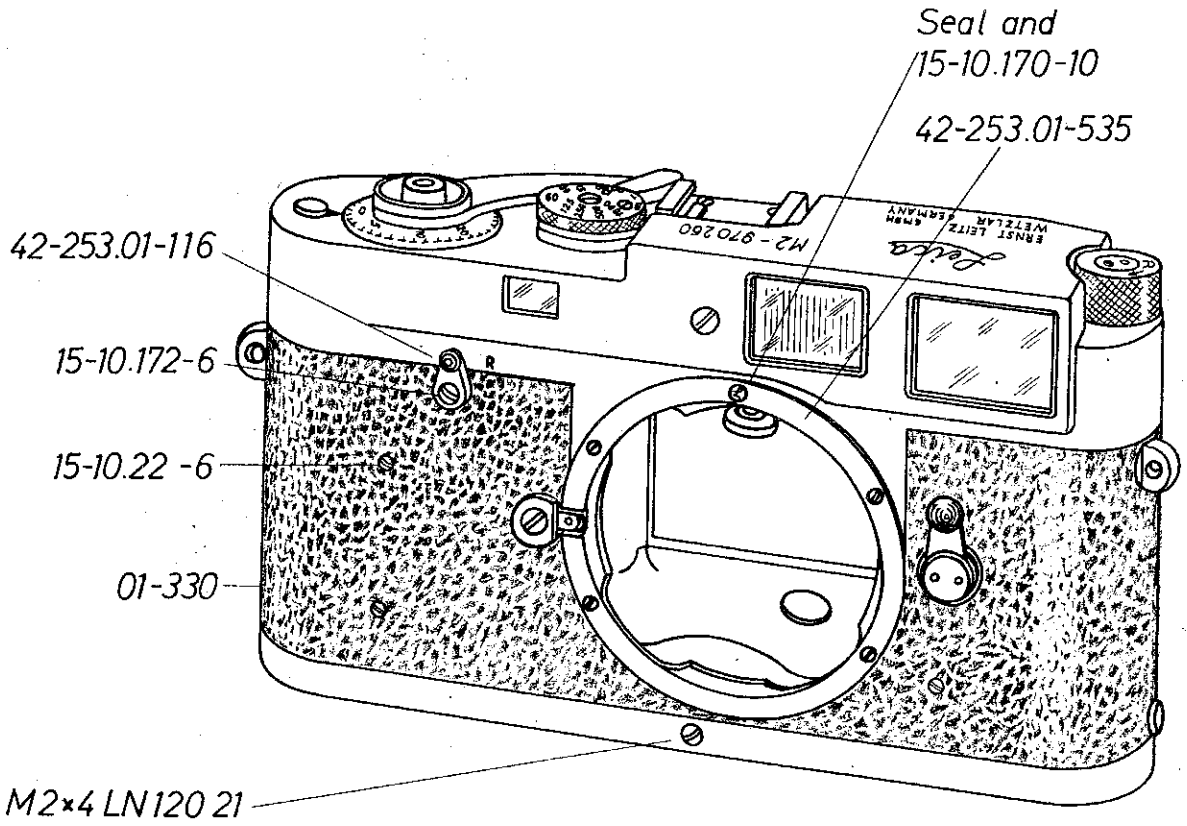


Fig. 3.2

Reversing lever 42-253.01-116
Unscrew the screw 15-10.172-6 with the 3.8 mm dia. screw driver, and pull out the lever 42-253.01-116.

Removing and Refitting the Housing

Sheet 3 and 4

Spanners and Tools

1. Spanner	42-253.01-596 / 2
2. Spanner	42-253.01-597 / 2
3. Servicing stamp	42-255.01- 21 /60
4. Wax 637	
5. Screw driver 2.5 mm dia.	
6. Screw driver 3.2 mm dia.	
7. Screw driver 3.8 mm dia.	

Sequence of Operations

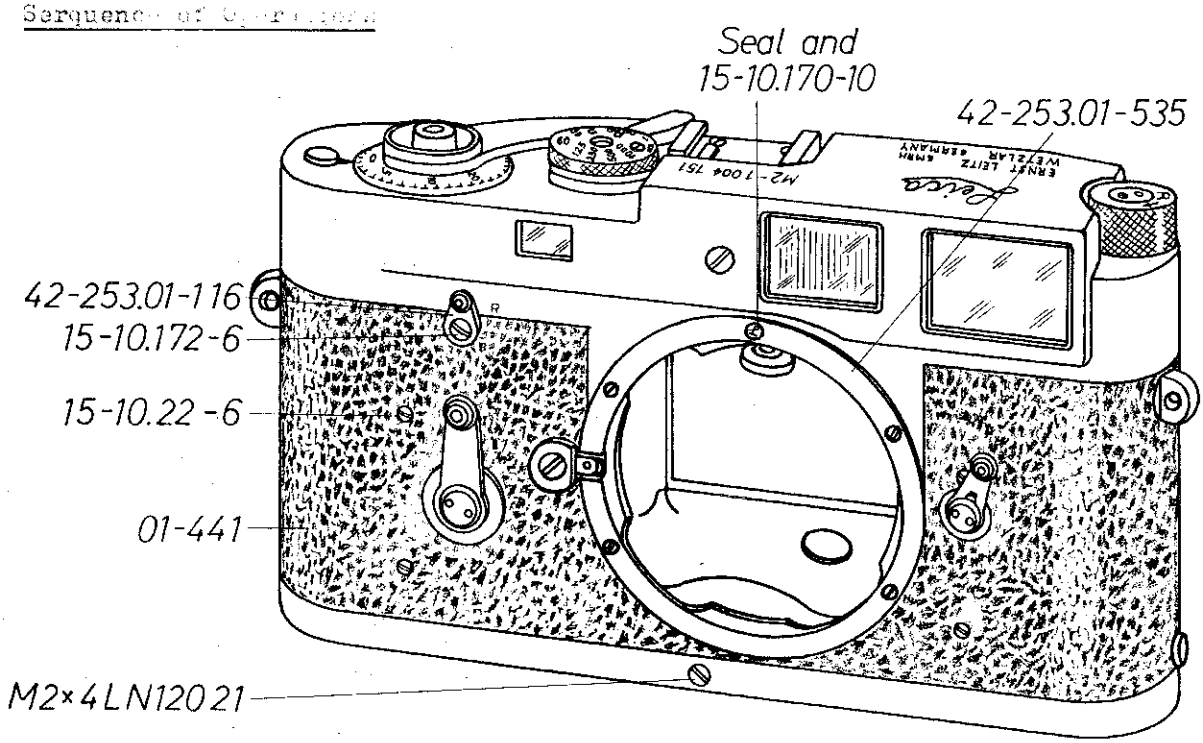
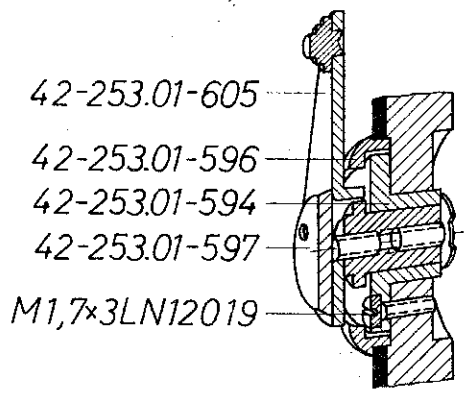


Fig. 3.3



Reversing lever 42-253.01-116
Unscrew the screw 15-10.172-6 with the 3.8 mm dia. screw driver, and pull out the lever 42-253.01-116.

Self-timer
Unscrew the screw 42-253.01-597 (left-hand thread) with the spanner 42-253.01-597 W2. Lift off the lever 42-253.01-605. Unscrew the cover ring 42-253.01-596 with the spanner 42-253.01-596 W2, unscrew the three screws M 1.7 x 3 LN 120 19 with the 2.5 mm dia. screw driver, and take off the flange 42-253.01-594.

Removing and Refitting the Housing

Continued from sheet 3

Housing 01-330 (from No. 1 004 151 housing 01-441)
Remove the base plate 42-253.01-751. Unscrew the screw 15-10.174-7 and the two screws M 1.7 x 3.5 LN 120 25 with the 2.5 mm. dia. screw driver. Remove the cover plate 42-253.01-90 and the locking plate 42-253.01-78 (see sheet 6). Unscrew the four screws 15-10.22-6 and the screw M 2 x 4 LN 120 21 with the 3.2 mm. dia. screw driver. Remove the seal from the top centre hole of the bayonet ring and unscrew the screw 15-10.170-10 underneath the seal with the 2.5 mm. dia. screw driver.

Pull off the housing from below. Take care not to damage the cover strip 42-253.01-413, and also do not unhook the spring 42-253.01-630 at the viewfinder slider bars.

Refit the housing by proceeding in the reverse order.

Insert the light shield 42-253.01-507 (42-253.01-911, see Spare Parts List sheet 14.3) into the groove of the main body at the side which takes the magazine before fitting the screws 15-10.22-6. Care is to be taken that closed side of profile of the light shield the open side of the camera.

Check

Alignment of the bayonet ring 42-253.01-535 relative to the film plane (see sheet 5).
Setting of the selftimer mechanism (see sheets 27 and 28).

Fitting the Bayonet Ring

Sheet 5

Tools, Appliances, and Instruments

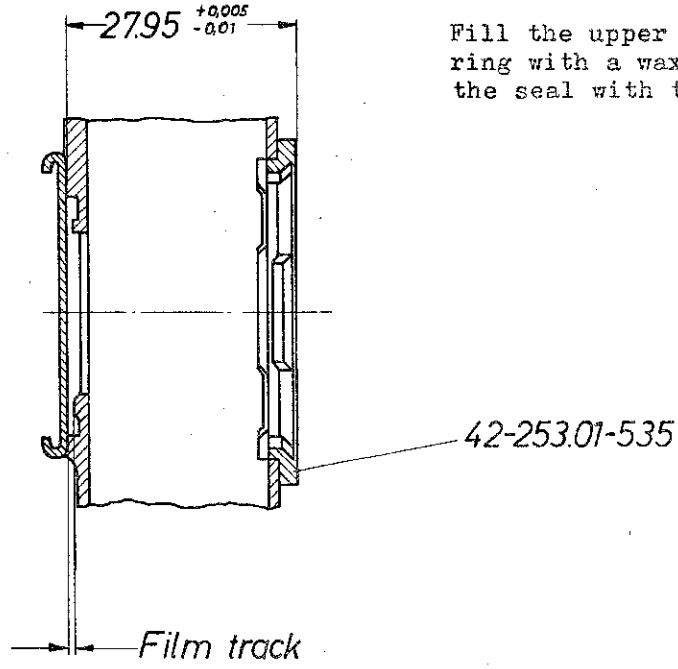
1. Measuring instrument for zero setting	42-253.01-Z1 A76
2. Turning attachment (Specify receiving thread of lathe)	42-253.01-535 W15
3. Auto-collimator telescope	42-582.01-Z1 W4
4. Screw driver, 3.2 mm. dia.	
5. Servicing stamp	42-253.01-Z1 W60
6. Wax 637	

Sequence of Operations

Place the back of the Leica on the zero setting instrument 42-253.01-Z1 A76. Insert the bayonet ring 42-253.01-535 in the Leica housing, and with a dial gauge measure the distance from the front of the bayonet ring to the measuring plate. Fix the bayonet ring to the turning attachment 42-253.01-535 W15 on a lathe, and turn down the bayonet ring by the amount found necessary on measurement. The correct setting, once the bayonet ring is screwed down, must be $27.95^{+0.005}_{-0.01}$ (see fig. 4.1). Mount the bayonet ring on the housing with the four screws 15-10.170-9 and the screw 15-10.170-10, using the 3.2 mm. dia. screw driver (see also sheet 4.1 of the Spare Parts List for the Leica M 2).

Use the auto-collimator telescope 42-582.01-Z1 W4 to check the parallel alignment of the bayonet ring to the plane of the film track on the zero setting instrument. Deviations up to half the thickness of the line are permissible.

After fitting the bayonet ring, re-check the rangefinder (see sheets 7 to 10).



Fill the upper mounting hole of the bayonet ring with a wax seal (see fig. 1.1), and mark the seal with the Leica servicing stamp.

Krüger

Removing and Refitting the Rangefinder

Sheet 6

Tools

1. Screw driver	42-253.01- 630 W6
2. Screw driver	42-253.01- 114 W1
3. Spanner	42-253.01-U804 W2
4. Screw driver, 2.5 mm. dia.	

Sequence of Operations

Remove the cover plate (see sheets 1 and 2)

Remove the base plate 42-253.01-751.

Unscrew the two screws M 1.7 x 3.5 LN 120 25 and the screw 15-10.174-7 with the 2.5 mm. dia. screw driver, and take off the cover plate 42-253.01-90 and the locking plate 42-253.01-78.

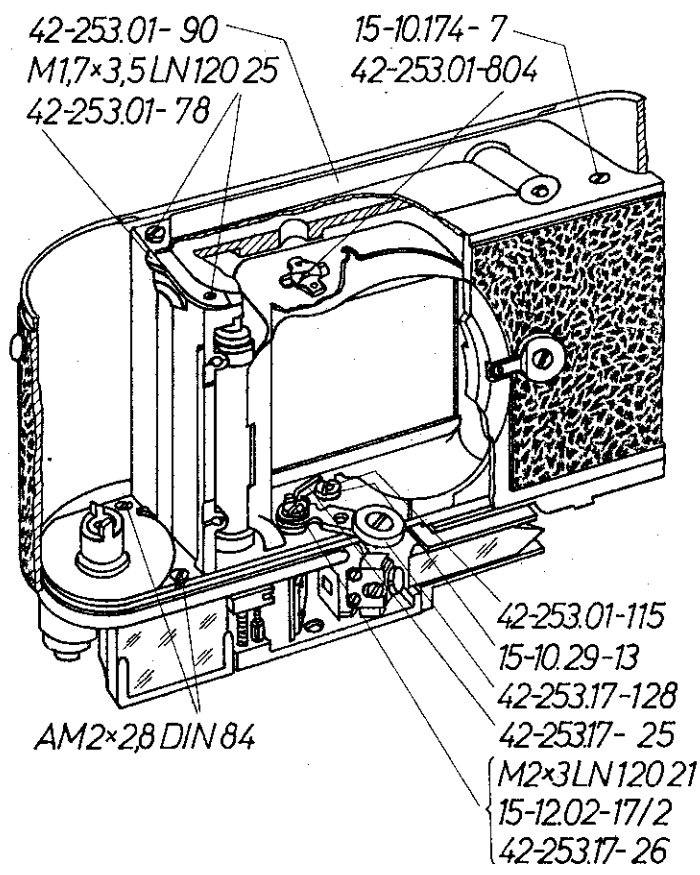


Fig. 5.1

Unscrew the cover piece 42-253.01-804 with the spanner 42-253.01-U804 W2, and lift out.

Unscrew the screw M 2 x 3 LN 120 21 with the screw driver 42-253.01-630 W6, and take off the washer 15-12.02-17/2, the excentric cam 17-26, and the coupling lever with roller 17-128.

Unscrew the screw 15-10. 29-13 together with the excentric cam 42-253.01-115, using the screw driver 42-253.01-114 W1.

Unscrew the two screws AM 2 x 2.8 DIN 84 with the screw driver 42-253.01-630 W6, and lift off the rangefinder.

Refit the rangefinder by proceeding in the reverse order. Check that the front edge of the rangefinder unit is parallel with the front edge of the main body.

For adjustment of the rangefinder see sheets 7 to 10.

Krüger

Adjusting the Rangfinder

Sheet 7 to 10

Setting Instruments, Gauges and Tools

1. Table stand	42-253.01-Z1	W 7
2. Camera holder	42-253.01-Z1	W 9
3. Graticule housing for 1 metre setting	42-253.01-Z1	W 63
4. Graticule for 1 metre setting	42-700.01-Z1	W 20
5. Graticule housing for 10 metre setting	103.25.2	
6. Graticule for 10 metre setting	103.25.16	
7. Distance setting gauge	42-582.01-Z1	A 10
8. Finder mask setting gauge	42-253.01-Z1	A107*
9. Spanner	42-582.03- 62	W 2
10. Needle gauge for 0,7 metre setting	42-582.01-Z1	W 8
11. Angle screw driver	42-253.01-703	W 2
12. Bending tool	42-253.01-700	W 2
13. Screw driver	42-253.01-630	W 6
14. Screw driver	42-582.03-Z1	W 6
15. Eyepiece lens holder	42-582.03-Z1	W 1
16. Screw drivers, 1.8 to 2.5 mm. dia.		

Sequence of Operations

Mount the needle gauge for the 0.7 metre setting on the table stand 42-253.01-Z1 W7. Screw the eyepiece lens holder 42-582.03-Z1 W1 to the rangfinder housing with one screw M 2 x 2 DIN 84.

Measuring Distances

Fit the distance setting gauge 42-582.01-Z1 A10 into the Leica, mount it on the camera holder 42-253.01-Z1 W9, and swing the viewing telescope in position to check the infinity setting on the graticule housing for the 10 metre setting. Carry out any adjustment necessary with the angle screw driver 42-253.01-703 W2 on the excentric shaft 42-253.17-131 (see fig. 6.1).
Bring the rangefinder images into coincidence by turning the shaft of the excentric cam to the left or right with the angle screw driver 42-253.01-703 W2.

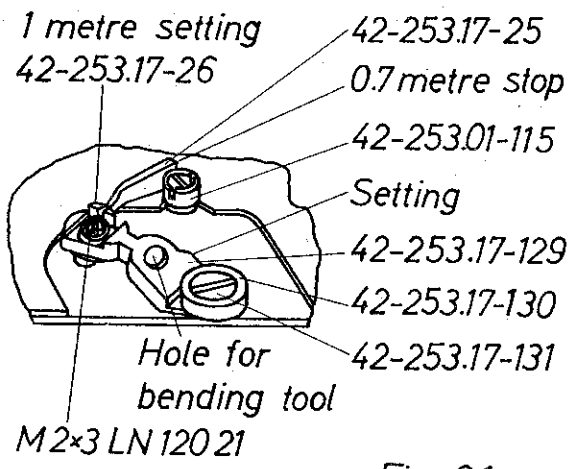


Fig. 6.1

Swing down the viewing telescope away from the rangefinder eyepiece, and set the distance setting gauge to 1 metre. The hair line cross of the graticule for the 1 metre setting must register exactly; the thin lines at each side being used as additional sighting lines. If any adjustment is necessary, shorten or lengthen the coupling lever 42-253.17-129 as follows: slack off the screw M 2 x 3 LN 120 21 with the screw driver 42-253.01-630 W6 and swing the excentric cam 42-253.17-26 (see fig. 6.1) until the hair line cross of the 1 metre setting is in exact register. Then tighten the screw M 2 x 3 LN 120 21 again.

* Corresponds to the finder mask setting gauge 42-253.01-Z1 A67 with a focusing range to 0.7 metres.

Krüger

Adjusting the Rangefinder

Continued from sheet 7

Alternately repeat the correction of the infinity and 1 metre settings until both are correct. Set the distance setting gauge to 0.7 metre, and check with the needle gauge 42-582.01-Z1 W8.
After adjusting the measuring distances, set the position of the excentric cam 42-253.01-115 so that it contacts the coupling lever 42-253.17-128 a little beyond the infinity position. Before screwing in the excentric cam, coat the screw thread with lacquer. Then set the stop 42-253.17-25 so that it contacts the excentric cam 42-253.01-115 just below the 0.7 metre setting.

Vertical Image Position

When adjusting the rangfinder settings between infinity and 0.7 metre, keep correcting any errors in the vertical image position. Do this by adjusting the level on the excentric screw 42-582.03-69 with the aid of the screw driver 42-582.03-Z1 W6 (see fig. 8.1).

Alignment of the Guide Roller

The movement of the bearing surface of the distance setting gauge 42-582.01-Z1 A10 is extended to two levels at the 10 metre setting. This permits checking of the exact vertical alignment of the guide roller 42-253.17-130. On turning the distance setting gauge from the left to the right stop at the 10 metre setting, the rangefinder image of the Leica must remain steady and unchanged in both positions. If the rangefinder image moves, the lever 42-253.17-129 carrying the guide roller (see fig. 6.1) needs straightening. Insert the bending tool 42-253.01-U700 W2 in the corresponding hole in the lever 42-253.17-129 (see fig. 6.1), and bend the lever with the guide roller into the correct position. Re-check constantly with the distance setting gauge. This alignment is best carried out at the start of the rangefinder adjustment.

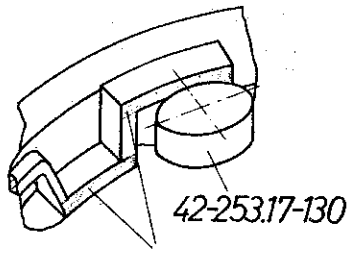


Fig. 7.1

Parallax Correction

Fit the Leica in the distance setting gauge mounted on the camera holder. Swing the ground glass screen attached to the camera holder in front of the film aperture of the camera, and set the distance setting gauge to 1 metre. Use the ground glass screen to align the picture aperture of the camera accurately with the continuous frame marked on the graticule of the 1 metre graticule housing. The camera holder can be adjusted vertically and horizontally for this purpose by means of two milled screws at the right hand side.

When the Leica is accurately aligned, the 90 mm. finder frame of the camera must register exactly with the continuous frame marked on the graticule. If the finder frame of the camera needs correction, adjust it by turning the excentric screw 03-32 with a 2.2 mm. dia. screw driver (see fig. 8.1).

Adjusting the Rangefinder

Continued from sheets 7 and 8

On moving the distance setting gauge to the infinity position, the finder frame must move steadily towards the broken frame marked on the graticule. At the infinity setting slight deviations between the frame on the graticule and the finder frame are permissible.
Correct the setting, if necessary, by turning the guide rivet 03-62 to the left or to the right with the spanner 42-582.03-62 #2 until the frames coincide (see fig. 8.1).

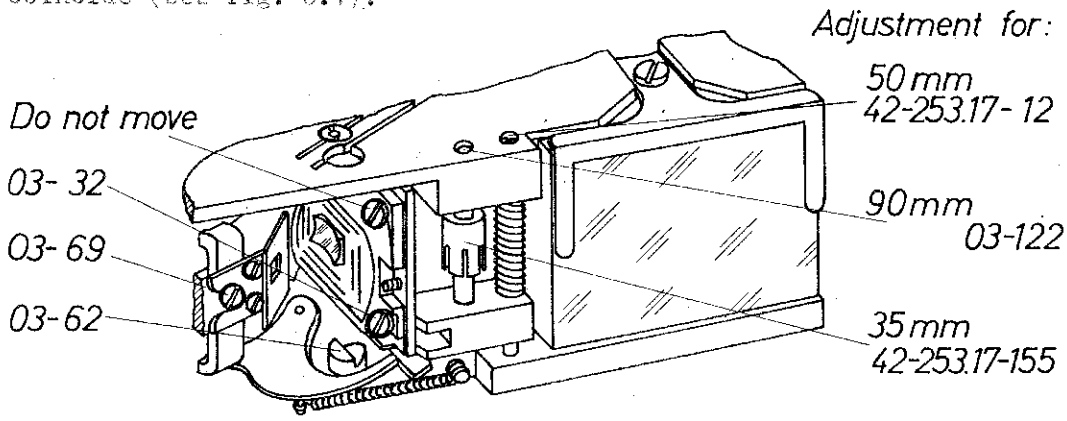


Fig. 8.1

Further adjustment is possible by displacing the whole mask carrier 03-28. Slack off the two screws M 1.7 x 3 DIN 84 and reset the mask carrier as required. Push the mask carrier fully against the stop before screwing down again (see fig. 9.1).
On turning the distance setting gauge from the infinity to the 0.7 metre setting, the parallax adjusting mechanism must move smoothly and without restraint.

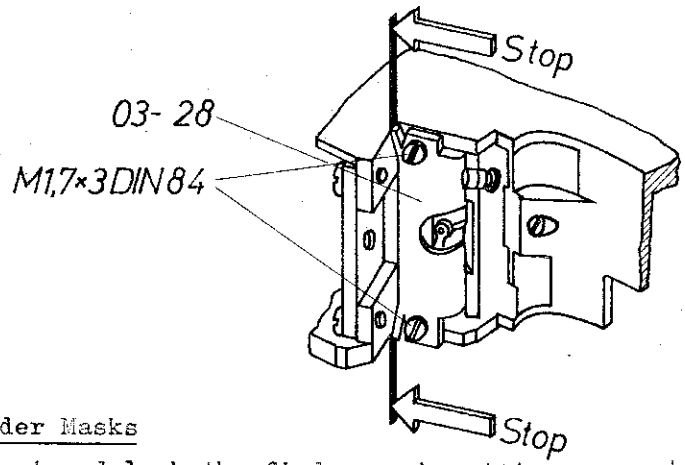


Fig. 9.1

Finder Masks

Insert and lock the finder mask setting gauge 42-253.01-Z1 A107 in the Leica. Engage the setting knob of the gauge in the midway position, indicating a focal length of 50 mm. Watch the finder field, and rotate the finder mask setting gauge about its axis on the Leica as far as the extended slot of the gauge allows it.

Adjusting the Rangefinder

Continued from sheets 7, 8, and 9

At the same time keep depressing the press-button in the upper part of the gauge as far as it will go (see fig. 10.1).

If the 90 mm. or 35 mm. finder frames appear during this operation correct this movement.

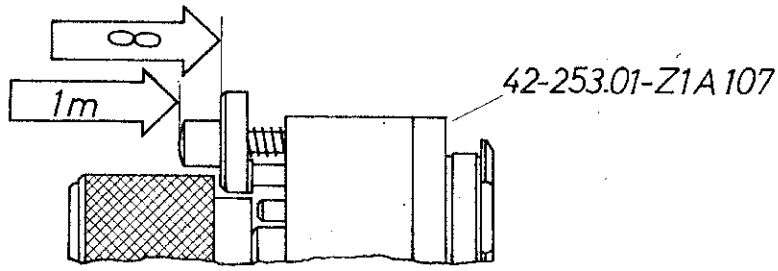


Fig. 10.1

Now set the finder mask setting gauge to the 90 mm. stop, rotate the gauge about its axis, and depress the press-button. Repeat at the 35 mm. stop; the 35 mm. finder frame must appear in this case.

During this test the 90 mm. and 35 mm. finder frames, according to the position of the finder mask setting gauge, must always remain visible. Correct the setting, if necessary, by adjusting the stops for the mask movement (see fig. 8.1).
With the finder mask setting gauge in the 50 mm. position, adjust the setting shaft 42-253.17-12 with the 1.8 mm. dia. screw driver. With the gauge in the 90 mm. position screw down the setting screw 03-122 as far as it will go.
When the finder mask setting gauge is set for 35 mm., the outline of the 35 mm. finder field is controlled by the adjusting nut 42-253.17-155.

After adjustment slack off the screw M 1.7 x 1.8 LN 120 21, insert the light trapping 03-159 under the spring arms, making sure that it does not protrude beyond the most forward edge of the mask carrier. Secure the light shield with "UHU-hart".
Fit the light shield 03-124 and secure with "UHU-hart".

Remove the screw M 2 x 2 DIN 84, and take off the eyepiece lens holder 42-582.03-Z1 W4.

Refit the cover plate (see sheets 1 and 2).

Check the operation of the rangefinder (see sheets 7 to 10).

Removing and Refitting the Slow Speed Escapement

Sheet 11

Tool

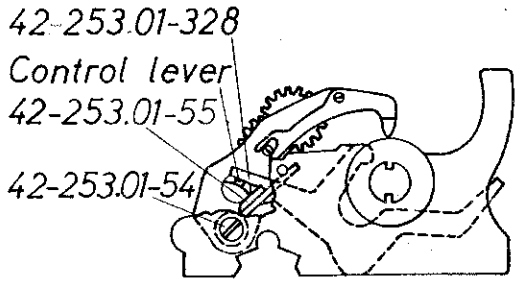
1. Screw driver, 2.8 mm. dia.

Sequence of Operations

Remove the cover plate (see sheets 1 and 2)

Remove the rangefinder (see sheet 6)

Unscrew the screw M 2 x 6 LN 120 21 in the contact frame 42-253.01-478 with the 2.8 mm. dia. screw driver. Move the contact frame 42-253.01-478, connected to the lead, to one side. Unscrew the shaft 42-253.01-54 (see fig. 11.1) underneath the contact frame 42-253.01-478 with the 2.8 mm. dia. screw driver. Remove the slow speed escapement 42-253.15-1 and the spring 42-253.01-55 towards the front. Watch the position of the spring 42-253.01-55 while doing this.



Refit the escapement mechanism by proceeding in the reverse order. Make sure that the disengaging lever 42-253.01-328 sits in front of the control lever of the escapement mechanism 42-253.15-1. At the 1/15 second setting the disengaging lever must put the escapement anchor out of action.

Fig. 11.1

Set the shutter speeds (see sheets 13 to 15)

Adjust the rangefinder (see sheets 7 to 10)

Refit the cover plate (see sheets 1 and 2).

Adjusting the Brakes

Sheet 12

Tools

1. Screw driver, 2.5 mm. dia.
2. Screw driver, 4 mm. dia.

Sequence of Operations

Unscrew the two screws M 1.7 x 3.5 LN 120 25 and the screw 15-10.174-7 with the 2.5 mm. dia. screw driver, and remove the cover plate 42-253.01-90 and the locking plate 42-253.01-78 (see sheet 6).

Tension the Leica shutter, and set the shutter speed dial to B. When the first and second shutter blinds have run down, it must still be possible to pull the second blind with the thumb and index finger through about 0.1 to 0.5 mm. in the direction of its travel.

If any adjustment is required, tension the Leica shutter, and turn the setting screw 15-10.21-12 (fig. 12.1) to the left or right with the 4 mm. dia. screw driver. Check the setting after every adjustment of the setting screw by pulling on the second shutter blind as described above.

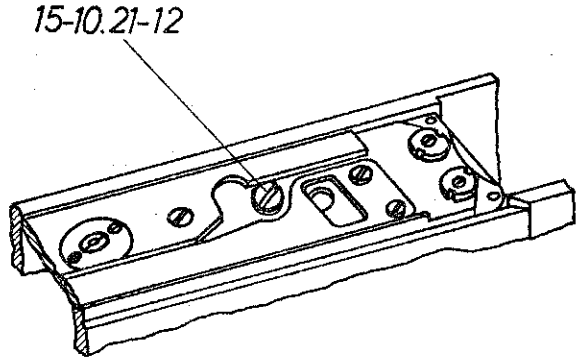


Fig.12.1

Setting and Testing the Shutter Speeds

Sheets 13 to 15

Instruments, Spanners, and Tools

1.	Spring tension gauge	42 216 Z1 W42
2.	Speed testing instrument	42-253.01 Z1 W111*
3.	Light drum	42-253.01 Z1 W100
4.	Spanner	42-253.01 U281 W3
5.	Speed pattern	42-253.01 Z1 A95
6.	Mirror	42-253.01 Z1 W 41
7.	OBAMA oil injector	
8.	Screw driver, 1.8 mm. dia.	
9.	Screw driver, 2.2 mm. dia.	
10.	Screw driver, 2.8 mm. dia.	

The 1/1000, 1/500, and 1/250 second are checked with the light drum 42-253.01 Z1 W100 rotating at 280 revs. per minute.

The tools list specifies the latest model of the light drum 42-253.01 Z1 W100. Any older type of light drum can be used equally well, provided it permits exact setting of the running speed.

Sequence of Operations

Unscrew the two screws M 1.7 x 3.5 LN 120 25 and the screw 15-10.174-7 with the 2.2 mm. dia. screw driver. Remove the cover plate 42-253.01-90 and the locking plate 42-253.01-78 (see sheet 6).
Check the tension of the spring roller of the second shutter blind (see fig. 13.1) with the spring tension gauge 42 216-Z1 W42. This should register 19 ± 2.
To adjust the second shutter blind, introduce the 2.8 mm. dia. screw driver in the slot of the shaft, press it down into the shaft bearing, and adjust the tension by turning the screw driver (see fig. 13.1). Pulling out the screw driver re-engages the setting ring.
Set the shutter speed dial to 500, and check by looking through the camera whether the shutter opens. Increasing the tension of the spring roller of the first shutter blind will open the shutter.

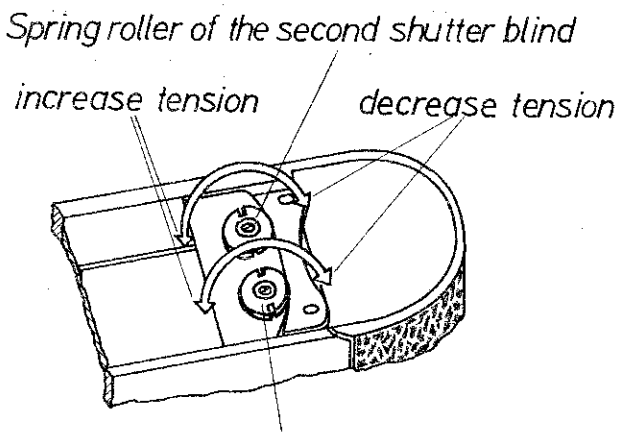


Fig. 13.1

Insert the speed pattern 42-253.01-Z1 A95 into the film aperture of the camera from the rear, and check the curve of the second shutter blind with the light drum. If the curve pattern of the camera shutter is steeper than the speed pattern, the spring roller of the second shutter blind needs tensioning. If the shutter curve is flatter, the tension must be decreased.

*The slow speed testing instrument 42 216 Z1 W67 is equally suitable.

Setting and Testing the Shutter Speeds

Continued from sheet 13

The image of the slit at the lower edge of the picture frame must be slightly wider than at the top. The drum images (see fig. 14.1) show the required pattern. Increasing the tension of the spring roller of the first shutter blind widens the image of the slit at the lower edge of the picture frame, decreasing the tension makes it narrower.

Fig. 14.1

If the width of the slit does not correspond to the drum image for 1/500 second (see fig. 14.1), the cover plate must be removed (see sheets 1 and 2).

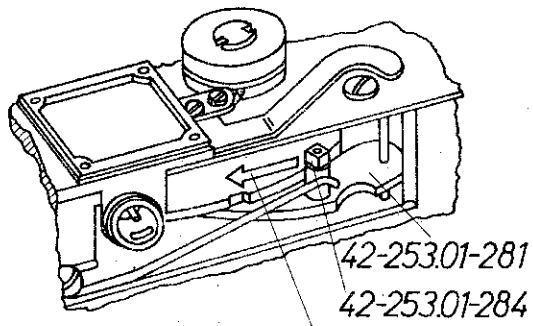


Fig. 15.1

Turn the excentric shaft 42-253.01-248 mounted on the locking pawl 42-253.01-281 (see fig. 15.1) gradually with the spanner 42-253.01-U281 W3 until the width of the slit matches the drum image. The thicker side of the excentric shaft 42-253.01-248 must always point towards the flash sockets (see fig. 15.1). Once the shutter speed on a Leica sent for servicing is correctly set at 1/500 second, the 1/1000 second setting will always match the drum image for 1/1000 second as shown in fig. 14.1. Re-adjustment should only be necessary in exceptional cases, for which the rangefinder must be removed (see sheet 6).

The shutter speed setting cam (see fig.16.1) carries a slot cut into it. Bending the end of the cam 42-253.01-312 outwards (away from its axis) makes the slit for the 1/1000 second setting narrower; bending inwards makes the slit wider.

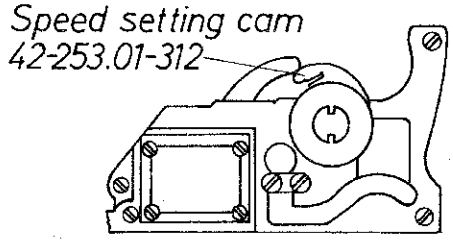


Fig. 16.1

Setting and Testing the Shutter Speeds

Continued from sheets 13 and 14

With the Speed Testing Instrument 42-253.01 Z1 W111

Set the shutter speed dial of the Leica to B, and insert the mirror 42-253.01 Z1 W41 in the film plane of the camera. Attach the Leica with its bayonet ring to the plastic Vinidur ring of the speed testing instrument.

Always set the shutter speed dial of the Leica to the speed corresponding to the key used on the speed testing instrument .
On pressing the Leica release button the pointer of the meter on the speed testing instrument must come to rest within the tolerance limits marked.

The shutter speeds of 1/125 second, 1/60 second, and ½ can be measured with the speed testing instrument 42-253.01 Z1 W111.
The speeds of 1/30, 1/15, 1/8, 1/4, 1/2, and 1 second are checked with the speed testing instrument 42-253.01 Z1 W111.

If these shutter speeds need adjustment, the cover plate must be removed (see sheets 1 and 2).

The basic setting for the slow speeds is 1/8 second. This speed must be set exactly with the eccentric setting screw of the slow speed escapement 42-253.15-1 (see fig. 17.1), using the 1.8 mm. dia. screw driver.

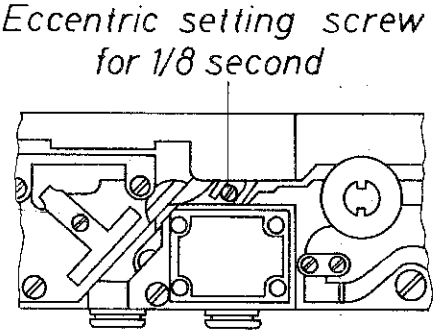


Fig. 17.1

The shutter speeds of 1/15, 1/2, and 1 second depend on the rate at which the escapement mechanism runs down. Dirt in the mechanism may slow down the speeds (see sheet 53).

For removing and refitting the escapement see sheet 11.

The shutter speeds of 1/30 and 1/4 second can be adjusted separately on the setting cam 42-253.01-305 (see fig. 18.1) after removal of the rangefinder (see sheet 6). Bending the slit in the cam outwards or inwards (see fig. 18.1) descreases or increases respectively the exposure time.

After refitting the cover plate check all operations of the camera.

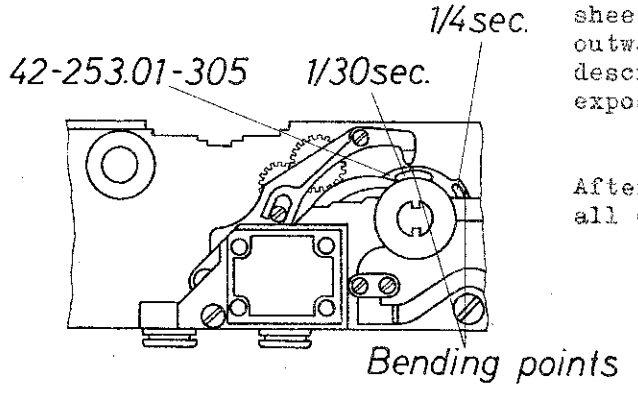


Fig. 18.1

Checking the Synchronization

Sheets 16 to 19

Testing Instruments, Accessories, and Tools

1.	Contact test meter	42 531 Z1 W13
2.	Synchro test unit	42-253.01 Z1 W109
3.	Template	42-253.01 Z1 A96
4.	Template	42-253.01 Z1 A97
5.	Bending tool	42-253.01 U443 W5
6.	Bending tool	42-253.01 U443 W6
7.	Spanner	42-253.01 76 W2
8.	Cable with probing points	103.25.18
9.	MOONZ lead	42-253.04
10.	Screw driver, 2.5 mm. dia.	

Notes

This checking procedure assumes that the shutter speeds have been tested in accordance with the Servicing Instructions for the Leica M 2 (sheets 13 to 15).
Before releasing the shutter of the Leica, make sure that the indicator lamp of the synchro test unit 42-253.01 Z1 W109 lights up to show that the instrument is ready for use.

The synchro test unit 42-253.01 Z1 W66 is also suitable for this checking procedure.

Always operate the discharge key on the contact test meter 42 531 Z1 W13 after moving the lever between the positions "D", "J". and "L".

Sequence of Operations

1. With the contact test meter 42 531 Z1 W13

Checking the M-contact (outlet 9).

1.1 Measuring the insulation resistance:

1.11 Set the switch on the contact test meter to 500 volts.
Fit the plug in the M-socket (outlet 9).
Set the lever to "J".
Do not tension the Leica shutter.

1.12 Press down the release button on the Leica, and turn the shutter speed dial from 1/1000 second to B:
The pointer must not register nor the indicator lamp light up.

1.13 Possible causes of failure on testing the insulation resistance:
Short circuit due to faulty insulation.
The contact spring 42-253.01-461 touches the housing 01-330.
The setting lever 42-253.01-289 touches the soldering point of the M-socket (outlet 9) when the shutter speed dial is set to B.

Other causes failure not mentioned above must be traced by checking the leads and contacts with the probing points 103.25.18.

1.2 Measuring the line resistance:

1.21 Set the lever to "D".
Tension the Leica shutter.
Set the shutter speed dial to B.

1.22 Hold the first shutter blind, and press the release button. Let the shutter blind run down slowly; after it has travelled 5 mm. the pointer of the contact test meter must give a scale reading between 60 and 100.

Checking the Synchronization

Continued from sheet 16

1.23 Possible causes of failure on measuring the line resistance:
Dirty outlet socket.
Poor connection between socket and plug.
Poor or broken soldering connection.
Contact springs fused together.

Other causes of failure not mentioned above must be traced by checking the leads and contacts with the probing points 103.25.10.

1.3 Checking the closing of the contact at all speeds from B to 1/1000 second:

1.31 Set the lever to "L".
Set the shutter speed dial to B.
Tension the Leica shutter.
1.32 Press the release button:
The green indicator lamp must light up to show that the contacts close.
Repeat the check for all settings from B to 1/1000 second, and from 1/1000 second to B.

1.33 For possible causes of failure on checking the closing of the contacts see 1.23.

Checking the X-contact (outlet socket ϟ)

1.4 Measuring the insulation resistance:

1.41 Set the switch on the contact test meter to 1000 volts.
Set the lever to "J", and the shutter speed dial to B.
Tension the Leica shutter.
Hold the first shutter blind.
1.42 Press the shutter release button:
The pointer must not register, nor the indicator lamp light up.
Let the shutter run down.
1.43 Half tension the Leica shutter.
1.44 Press the shutter release button:
The indicator lamp must not light up.
1.45 For possible causes of failure see 1.13.

1.5 Measuring the line resistance:

1.51 Set the lever to "D".
Tension the Leica shutter.
Set the shutter speed dial to B.
1.52 Press the shutter release button:
The pointer must give a scale reading between 60 and 100.

1.53 For possible causes of failure see 1.23.

Checking the Synchronization

Continued from sheets 16 and 17

2. With the synchro test unit 42-253.01 Z1 W109

Remove the back of the Leica for testing.

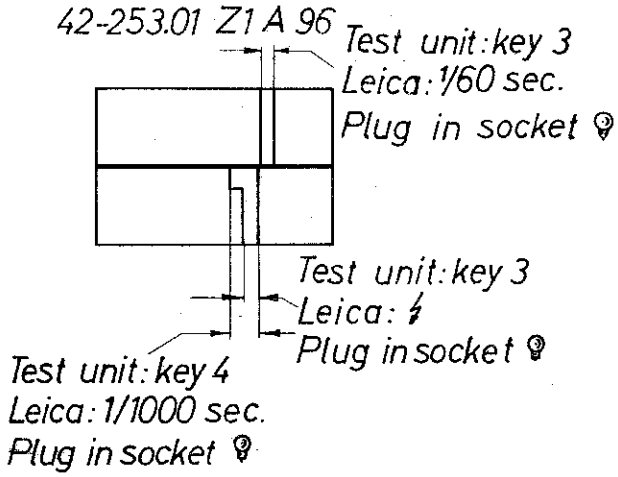


Fig. 19.1

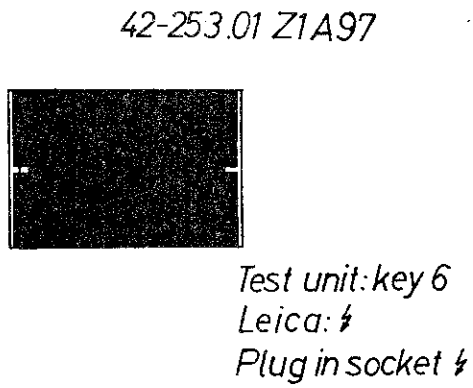


Fig. 20.1

Checking the M-contact (outlet socket)

2.1 Checking the correct contact position for flash bulbs:

2.11 Fit the plug into the M-socket (outlet). Press the key 4. Insert the template 42-253.01 Z1 A96 in the film aperture of the camera. Set the shutter speed dial to 1/1000 second. Tension the Leica shutter. Mount the Leica with the front aperture on the synchro test unit.

2.12 Press the shutter release button: The reading must be within the limits indicated on the template 42-253.01 Z1 A96 (see fig. 19.1).

2.13 Repeat step 2.12 with the key 3 depressed and the shutter speed dial set to 1/60 second.

2.14 In the case of a faulty reading at the 1/1000 second setting of the shutter speed dial check whether the separation between the contacts of the flash setting lever 42-253.01-615 and the flash contact bar 42-253.01-703 is 0.25 mm. (see fig. 21.1). If necessary bend the contact on the flash contact bar 42-253.01-703 into the required position with the bending tool 42-253.01-U443 W5.

2.15 In the case of an incorrect reading at the 1/60 second setting of the shutter speed dial remove the cover plate (see sheets 1 and 2) and the rangefinder (see sheet 6). Bend the arm of the flash contact bar 42-253.01-703 bearing against the cam 42-253.01-195, using the bending tool 42-253.01-U443 W6 (see fig. 21.1). If the contact is made too late, bend this arm to the left; if the contact is too early, bend to the right.
Check that the separation between the contacts of the flash setting lever 42-253.01-615 and the flash contact bar 42-253.01-703 is at least 0.25 mm. when the shutter speed dial is set to 1/1000 second.

Checking the Synchronization

Continued from sheets 16, 17, and 18

Checking the X-contact (outlet socket ϟ)

2.2 Checking the correct contact position for electronic flash:

2.21 Fit the plug into the X-socket (outlet ϟ).
Insert the template 42-253.01-21 A97 in the film aperture of the camera.
Set the shutter speed dial to ϟ .
Depress the key 6 on the synchro test unit.
Tension the Leica shutter.
Mount the Leica with the front aperture on the synchro test unit.

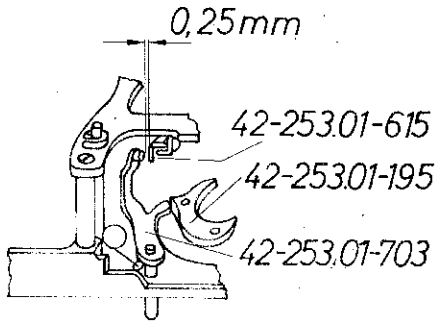


Fig. 21.1

2.22 Press the shutter release button:
The two slots of the template must be illuminated at each side; 0.5 mm. of the left-hand slot must still be obscured by the first shutter blind. The second shutter blind must not yet appear in the film aperture.

2.23 If the end position of the first shutter blind is incorrect, unscrew the two screws M 1.7 x 3,5 LN 120 25 and the screw 15-10.174-7 (see fig. 22.1) with the 2.5 mm. dia. screw driver. Remove the cover plate 42-253.01-90 and the locking plate 42-253.01-78. Use the spanner 42-253.01-76 J2 to turn the nut 15-11.175-5 to the left or right until the end position of the first shutter blind corresponds to that specified in step 2.22. If the right-hand slot of the template indicates that the second shutter blind already appears in the picture area of the camera, re-check the ϟ shutter speed (see sheet 15 of the Servicing Instructions for the Leica M 2).

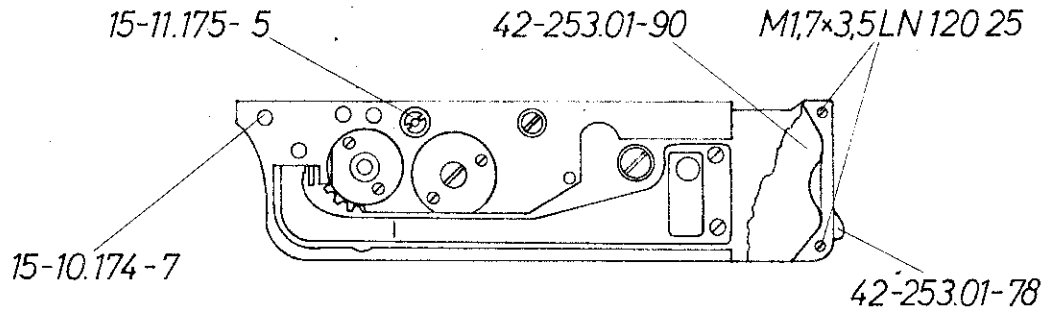


Fig. 22.1

Setting the Film Transport Shaft

Sheets 20 and 21

Tools

1. Spanner	42-253.01-31 W 3
2. Gauge	42-253.01-Z1 A89
3. Screw driver, 2.5 mm. dia.	
4. Screw driver, 2.8 mm. dia.	

Sequence of Operations

Remove the cover plate (see sheets 1 and 2).
Remove the housing (see sheets 3 and 4).

Fit the winding lever 42-253.01-371, the spring 15-12.11-6/1, and the screw ring 42-253.01-36.

Tension the Leica shutter.
Insert the gauge 42-253.01-Z1 A89 into the film aperture so that a tooth of the transport sprocket is in the aperture of the gauge.

Pull the winding lever 42-253.01-371 as for advancing the film, and at the same time press the film transport shaft against the transport direction.

The indicator of the gauge must point exactly to the centre of the scale (see fig. 23.1).

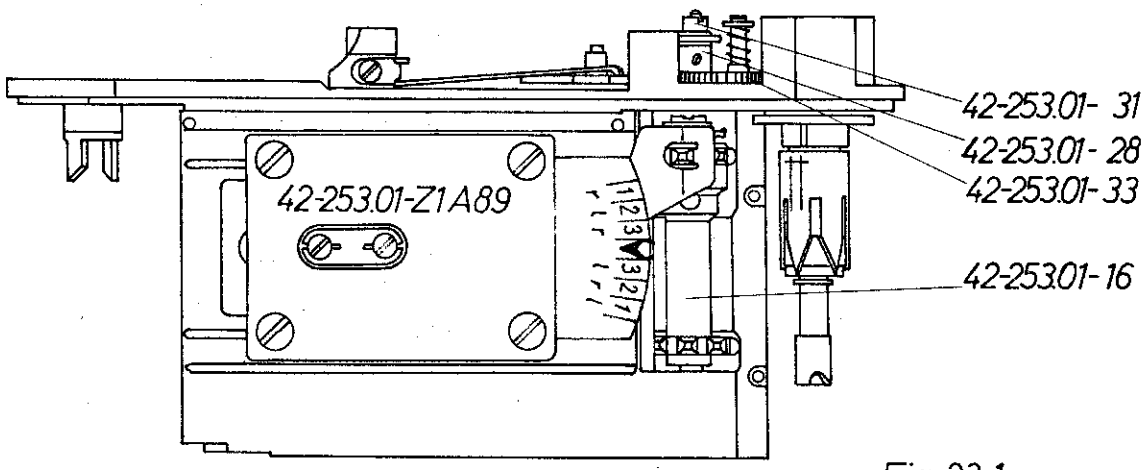


Fig. 23.1

If the gauge does not give the correct reading, proceed as follows: Unscrew the two screws M 1.4 x 2.2 DIN 63 with the 2.5 mm. dia. screw driver, and remove the coupling shaft 42-253.01-368 and the coupling wheel 42-253.01-355 (see Spare Parts List for the Leica M 2 , sheet 12.1).

Setting the Film Transport Shaft

Continued from sheet 20

Unscrew the nut 42-253.01-31 with the spanner 42-253.01-31 W3.

In the case of an incorrect reading (for instance if the pointer of the gauge indicates 2.1 on the scale) the cog wheel 42-253.01-33 must be lifted out of engagement with the pinion 42-253.01-28, and the film transport shaft 42-253.01-16 then turned to the left through the distance of two sprocket teeth. Replace the gauge 42-253.01-31 A89 in the film aperture (see fig. 23.1), and engage the cog wheel 42-253.01-33 with the pinion 42-253.01-28 in such a way that the gauge gives the correct reading.

The arresting lever 42-253.01-129 must engage in one of the three notches of the cog wheel on the driving shaft 01-140, while the limiting positions of the lever 42-253.01-825 and of the arresting lever 42-253.01-129 are fixed with the positioning washers 42-253.01-30 and 42-253.01-824 (see fig. 24.1). The illustration shows the position with the winding lever 42-253.01-371 pulled in the transport direction. Tighten the nut 42-253.01-31 with the spanner 42-253.01-31 W3, and seal with lacquer when all adjustments are completed.

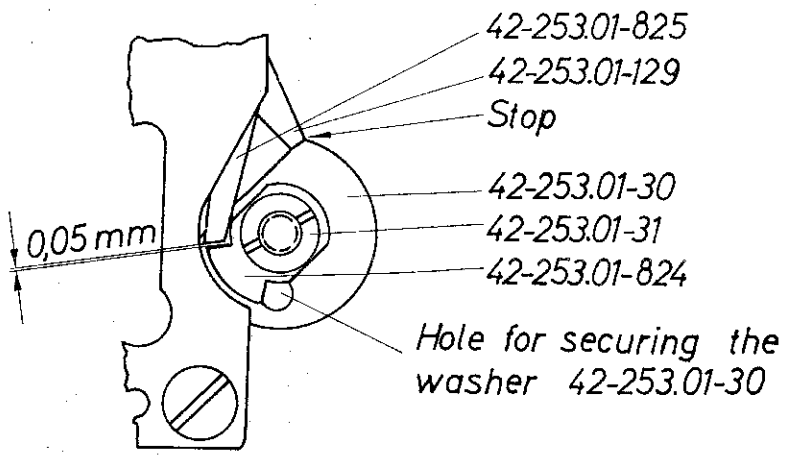


Fig. 24.1

Insert the coupling wheel 42-253.01-355 with the coupling shaft 42-253.01-368 in such a way that the shutter runs down on releasing when the coupling wheel 42-253.01-355 is pressed to the left or right. Screw in the two screws M 1.4 x 2.2 DIN 63 with the 2.5 mm. dia. screw driver.

Refit the housing (see sheets 3 and 4)

Refit the cover plate (see sheets 1 and 2)

Check the camera operation.

Krüger

Removing and Refitting the Pressure Plate

Sheet 22

Tool

Screw driver, 2.5 mm. dia.

Sequence of Operations

Remove the camera back 42-253.01-646 from the Leica body. With the 2.5 mm. dia. screw driver unscrew the two screws M 1.4 x 2 LN 120 21 on each of the two retaining strips 42-253.01-650. Remove the retaining strips 42-253.01-650 (see fig.25.1). Slide the pressure plate 42-253.01-648 lengthways and raise up at one end until the spring 42-253.01-649 is free of the retaining ledge of the pressure plate (see fig. 26.1). Lift off the pressure plate 42-253.01-648.

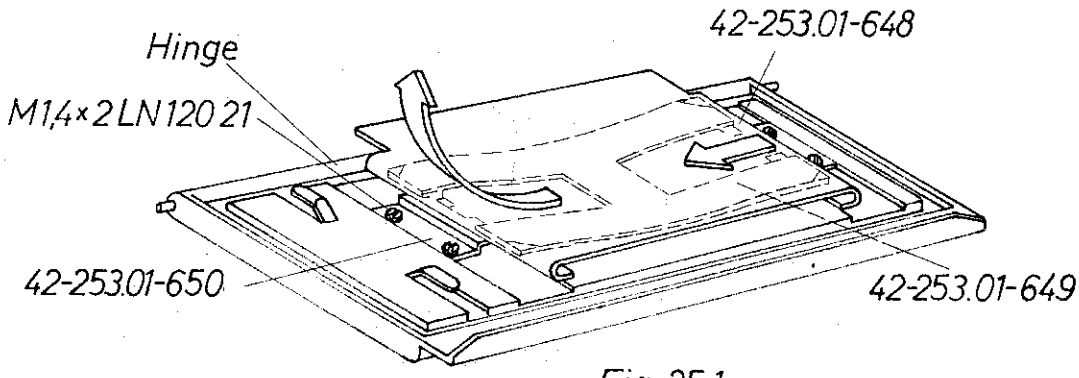


Fig. 25.1

Refit the camera back by proceeding in the reverse order. Note especially the orientation of the pressure plate 42-253.01-648 (see Spare Parts List for the Leica M 2, sheet 6.1).

When refitted, the pressure plate must be well sprung against the camera back.

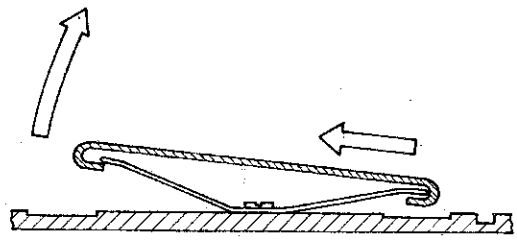


Fig. 26.1

Removing and Refitting the Finder

Sheet 23

Tools

1. Screw driver	42-253.01- 630 W6
2. Screw driver	42-253.01- 114 W1
3. Spanner	42-253.01-U804 W2
4. Screw driver, 2.5 mm dia.	

Sequence of Operations

Remove the cover plate (see sheets 1 and 2)

Remove the base plate 42-253.01-751.

Unscrew the two screws M 1.7 x 3.5 LN 120 25 and the screw 15-10.174-7 with the 2.5 mm. dia. screw driver, and take off the cover plate 42-253.01-90, the locking plate 42-253.01-78 and intermediate plate 42-253.01-814.

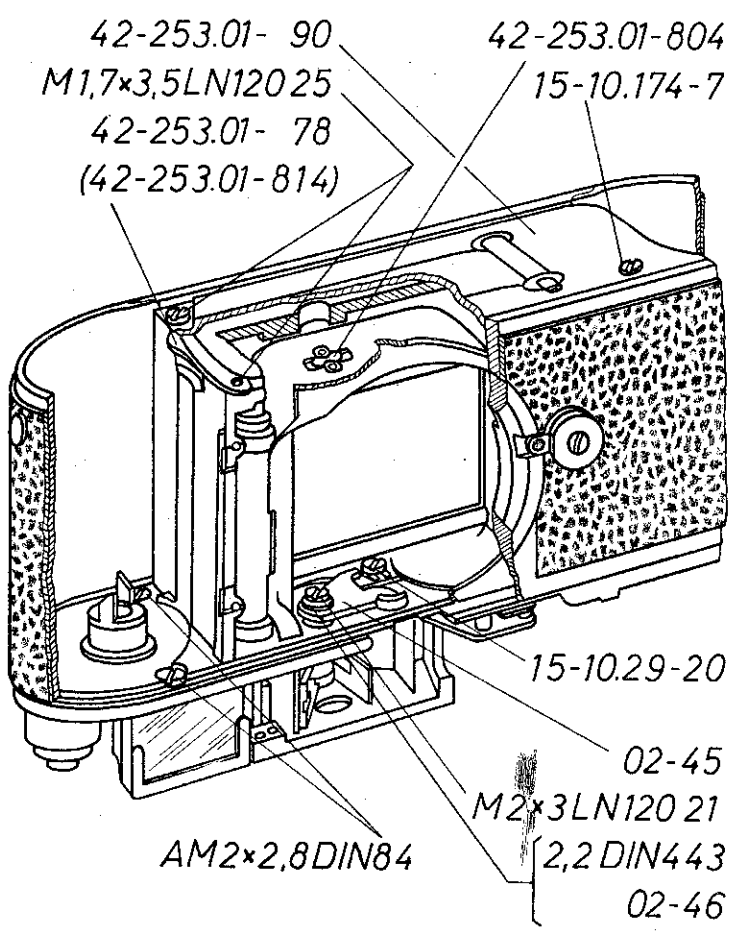


Fig. 27.1

Unscrew the cover piece 42-253.01-804 with the spanner 42-253.01-U804 W2, and lift out.

Unscrew the screw M 2 x 3 LN 120 21 with the screw driver 42-253.01-630 W6, and take off the washer 2.2 DIN 443, ring 02-46 and control lever 02-45.

Unscrew the screw 15-10.29-20, using the screw driver 42-253.01-114 W1.

Unscrew the two screws AM 2 x 2.8 DIN 84 with the screw driver 42-253.01-630 W6, and lift off the finder.

Refit the finder by proceeding in the reverse order. Check that the front edge of the finder unit is parallel with the front edge of the main body.

For adjustment of the finder see sheets 24 and 25.

Adjusting the Finder

Sheet 24 to 26

Setting Instruments, Gauges and Tools

1. Table stand	42-253.01-Z1	W 7
2. Camera holder	42-253.01-Z1	W 9
3. Graticule housing for 1 metre setting	42-253.01-Z1	W63
4. Graticule for 1 metre setting	42-700.01-Z1	W20
5. Distance setting gauge	42-582.01-Z1	A10
6. Spanner	42-582.03- 62	W 2
7. Eyepiece lens holder	42-582.03-Z1	W 1
8. Screw driver 2.2 mm. dia.		
9. Graticule for finder adjusting 1 metre (see Fig. 30.1)		

Sequence of Operations

Screw the eyepiece lens holder 42-582.03-Z1 W1 to the finder housing with one screw M 2 x 2 DIN 84. Screw the graticule for 1 metre adjusting (see sheet 26.1) to the graticule housing 42-253.01-Z1 W63 with four screws.

Parallax Correction

Mount the Leica and the distance setting gauge on the camera holder. Swing the ground glass screen attached to the camera holder in front of the film aperture of the camera, and set the distance setting gauge to 1 metre. Use the ground glass screen to align the picture aperture of the camera accurately with the continuous frame marked on the graticule of the 1 metre graticule housing. The camera holder can be adjusted vertically and horizontally for this purpose by means of two milled screws at the right hand side.

When the Leica is accurately aligned, the 50 mm. finder frame of the camera must register exactly with the continuous frame marked on the graticule. If the finder frame of the camera needs correction, adjust it by turning the excentric screw 42-582.03-32 with a 2.2 mm. dia. screw driver (see fig. 28.1).

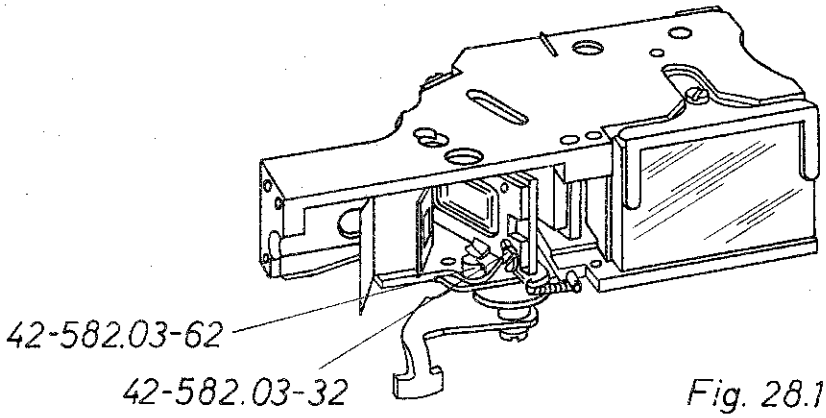


Fig. 28.1

On moving the distance setting gauge to the infinity position, the finder frame must move steadily towards the broken frame marked on the graticule. At the infinity setting slight deviations between the frame on the graticule and the finder frame are permissible.
Correct the setting, if necessary, by turning the guide rivet 42-582.03-62 to the left or to the right with the spanner 42-582.03-62 W2 until the frames coincide (see fig. 28.1).

Adjusting the Rangefinder

Continued from sheet 24

Further adjustment is possible by displacing the whole mask carrier 02-18. Slack off the two screws M 1.7 x 3 DIN 84 and reset the mask carrier as required. Push the mask carrier fully against the stop before screwing down again (see fig. 29.1).
On turning the distance setting gauge from the infinity to the 0.70 metre setting, the parallax adjusting mechanism must move smoothly and without restraint.

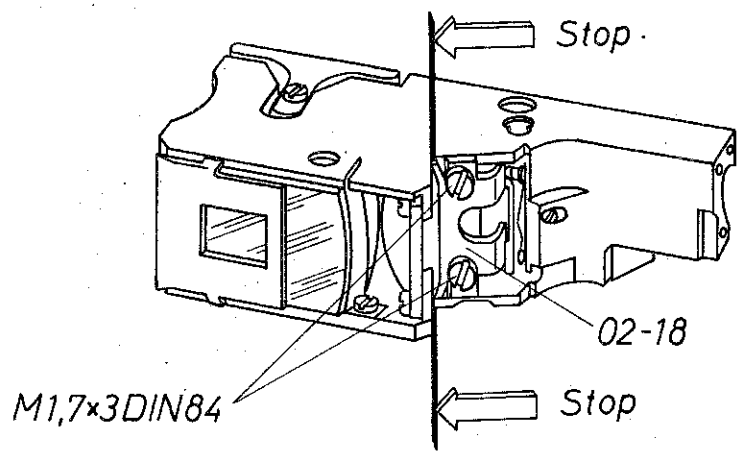


Fig. 29.1

After adjustment slack off the screw M 1.7 x 1.8 LN 120 21, insert the light trapping 42-582.03-159 under the spring arms, making sure that it does not protrude beyond the most forward edge of the mask carrier. Secure the light shield with "UHU-hart".

Remove the screw M 2 x 2 DIN 84, and take off the eyepiece lens holder 42-582.03-Z1 W4.

Refit the cover plate (see sheets 1 and 2).

Check the operation of the finder.

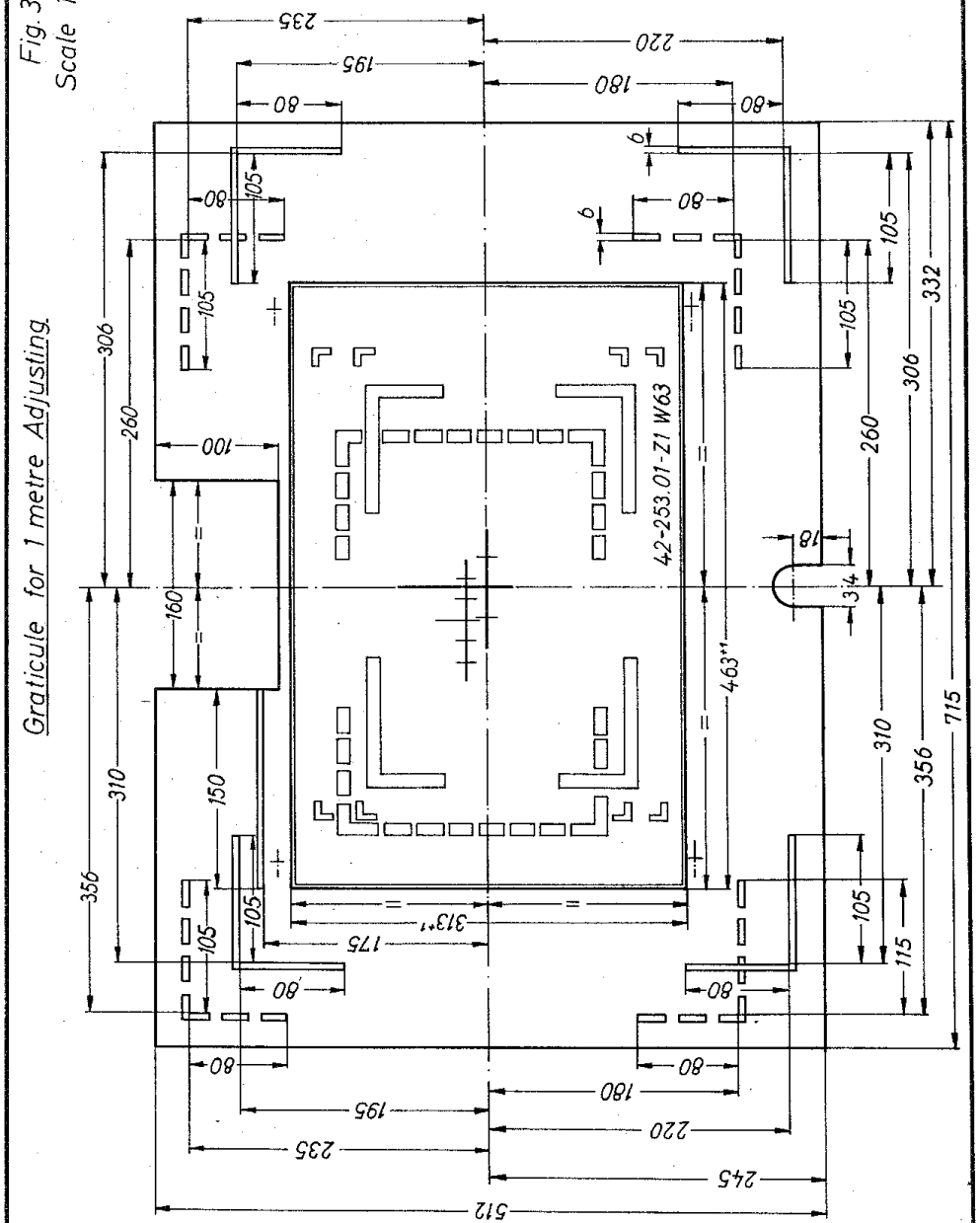
Set the shutter speed dial successively to 1/1000 second, to B and to 1 second, at times press the shutter release button and test the shutter speeds.

Adjusting the Rangefinder

Continued from sheet 24 and 25

Fig. 30.1
Scale 1:4

Graticule for 1 metre Adjusting



Fitting and Setting the Self-timer Mechanism

Sheets 27 and 28

Spanners and Tools

1. Spanner 42-253.01-596 W2
2. Spanner 42-253.01-597 W2
3. Screw driver 2.5 mm dia.

Sequence of Operations

Fitting

Insert the bushing 42-253.01-595, together with the spring washer 15-12.03-13 and the washer 15-12.03-14 into the flange 42-253.01-594. Screw the left-handed coupling screw 42-253.01-593 into the bushing 42-253.01-595, and insert all together in the camera body. If necessary, add a adjustment washer 42-253.01-566. The guide segment of the flange 42-253.01-594 must be at the right when viewed as in the illustration (see Spare Parts List 42-582, sheet 4.3). Turn the flange 42-253.01-594 while inserting it into the body, to engage the coupling screw with the self-timer mechanism.

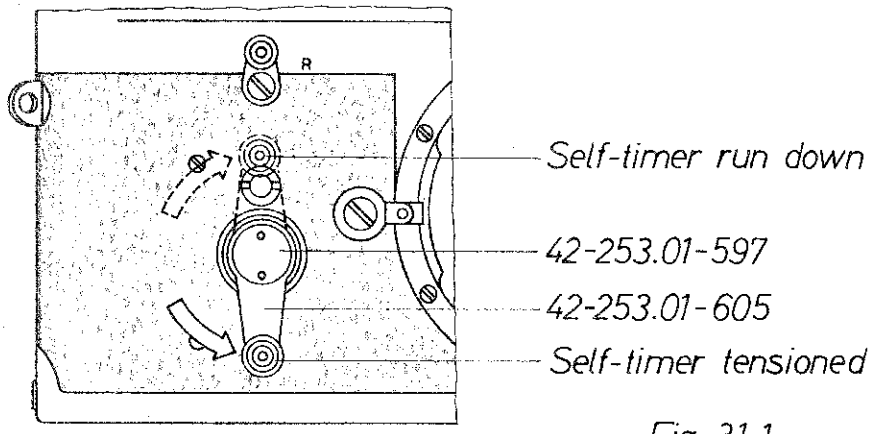


Fig. 31.1

Fasten the flange 42-253.01-594 with three screws M 1.7 x 3 LN 120 19, using the 2.5 mm dia. screw driver.
Screw the cover plate 42-253.01-596 over the flange 42-253.01-594, using the spanner 42-253.01-596 W2.
Fit the tensioning lever 42-253.01-605 so that it points upwards, and fix it with the screw 42-253.01-597 (left hand thread), using the spanner 42-253.01-597 W2.

Setting

Swing the tensioning lever from the "run down" position (see fig. 31.1) to the "tensioned" position, and hold it there.

Fitting and Setting the Self-timer Mechanism

Continued from sheet 27

Unscrew the screw 42-253.01-597 by one full turn with the spanner 42-253.01-597 W2, lift the tensioning lever, and quickly swing it into the "run down" position. Immediately tighten the screw 42-253.01-597.

Repeat this sequence of tensioning, swinging round, and tightening two or three times.

Set the shutter speed dial to B, tension the Leica shutter, tension the self-timer mechanism, and let it run down.
As the mechanism runs down, it must not release the Leica shutter. If it does release the shutter, repeat the above procedure of tensioning, swinging round, and tightening.

Once the mechanism does not release the Leica shutter on running down, hold the lever 42-253.01-605 of the self-timer mechanism in the "run down" position, and unscrew the screw 42-253.01-597 with the spanner 42-253.01-597 W2 until the self-timer mechanism runs down further. During this running down the first shutter blind will be released, followed eventually by the second shutter blind. Immediately the second shutter blind has closed over the picture aperture, tighten the screw 42-253.01-597 again.

Checking

Leave the shutter speed dial set to B, tension the Leica shutter and tension the self-timer. Let the self-timer run down and observe the shutter blinds. The shutter blinds should be released at the positions of the lever as shown in fig. 32.1.

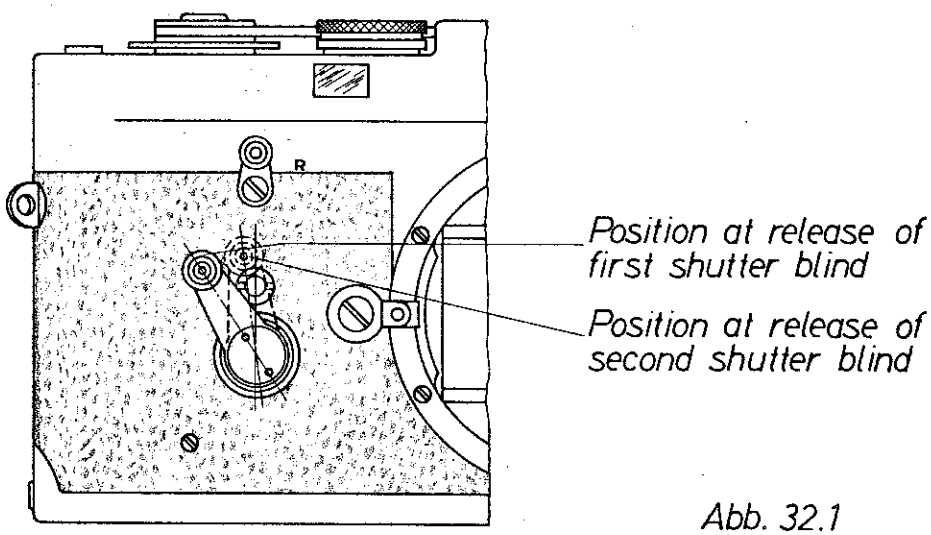


Abb. 32.1

Fitting a Self-timer Mechanism

Sheet 50 and 51

Tools and Appliances

1. Drilling jig	42-582.01-U330 W 1
2. Countersink bit	42-253.01-U555 W16
3. Countersink bit	42-253.01-U555 W19
4. Countersink bit	42-253.01-U555 W20
5. Screw tap M 1.7	
6. Screw tap M 5 x 0.5	
7. Matt varnish	
8. Screw driver, 2.8 mm. dia.	

New Parts Required

1. Adjustment washer	42-253.01-566	
2. Coupling screw	42-253.01-593	assembled
3. Flange	42-253.01-594	
4. Bushing	42-253.01-595	
5. Cover ring	42-253.01-596	
6. Screw	42-253.01-597	
7. Guide bushing	42-253.01-598	assembled
8. Pressure spring	42-253.01-599	
9. Pressure bolt	42-253.01-600	
10. Self-locking washer	1.5 DIN 6799	
11. Lever, riveted	42-253.01-605	
12. Complete self-timer mechanism	42-253.16- 1	
13. Cylinder head screw (three required)	M 1.7 x 3 LN 120 19	
14. Screw (two required)	15-10.20-10	
15. Washer	15-12.03-13/1	
16. Washer	15-12.03-14/1	

Discarded Parts:

1. Sealing plate	42-582.01-35
2. Screw	M 2 x 1.5 DIN 84

Note

A housing complete with the afterwork here described is available under the order No. 42-582.01-441.

Sequence of Operations

Remove the housing 01-330 (see sheets 3 and 4).

Place the drilling jig 42-582.01-U330 W1 on the housing 01-330, positioning it correctly. Drill three holes with a 1.4 mm dia. twist drill, and one hole each with the 4.4 mm dia. and 5.5 mm dia. twist drills.
Remove the drilling jig 42-582.01-U330 W1 from the housing 01-330.
Countersink once with the countersink bit 42-253.01-U555 W16 and once with the countersink bit 42-253.01-U555 W19 (see fig. 70.1).

Fitting a Self-timer Mechanism

Continued from sheet 50

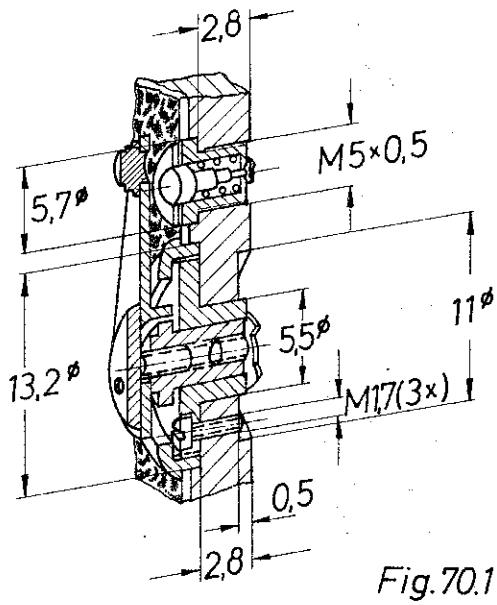


Fig. 70.1

Place the housing 01-330 on the drilling jig 42-582.01-U330 W1, and countersink the housing to a depth of 0.5 mm with the countersink bit 42-253.01-U555 W20.
Note: Start the drilling machine only after introducing the countersink bit through the back of the housing.

Remove the burrs from all drill holes.

Cut three threads with the screw tap M 1.7, and one thread with the screw tap M 5 x 0.5.

Coat all countersunk surfaces with matt black varnish.

Unscrew two screws M 2 x 1.5 DIN 84 from the main body 01-05. Remove the sealing plate 01-35. Screw down the self-timer mechanism 42-253.16-1 with two screws 15-10.20-10, using the 2.8 mm dia. screw driver.

Refit the housing 01-330 (see sheets 3 and 4).
Before screwing in the screws 15-10.22-6 (see fig. 3.1) insert the light trapping strip 42-253.01-507 from the cassette side of the Leica into the slots provided for the purpose in the main body. Make sure that the closed section of the light shield faces towards the open side of the camera.

For assembly and setting of the self-timer mechanism see the Servicing Instructions for the Leica M 3, sheets 8 and 9.

Check:

Alignment of the bayonet ring 42-253.01-535 to the film plane (see sheet 5).

Repairs to the Winding and Release Mechanism

Sheets 52 and 53

Tools and Spare Parts

1. Soldering iron
2. Screw driver, 2.8 mm dia.
3. Guide bracket 42-253.01-95

State of the Camera

The Leica is wound, but the release button is blocked. Nor do the shutter blinds run down on operating the self-timer.

Cause

On running down, the edge of the first shutter blind 01-273 has finished up alongside the light trap fitted to the second shutter blind 01-265 (see fig. 74.1) instead of running into the trap (see fig. 73.1). On winding the camera the winding mechanism jams prematurely before unblocking the release button.

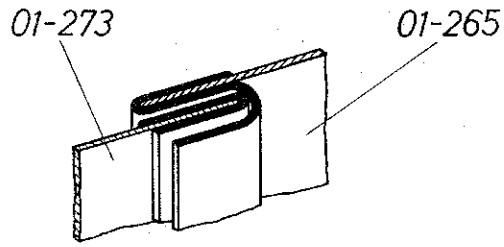


Fig. 73.1

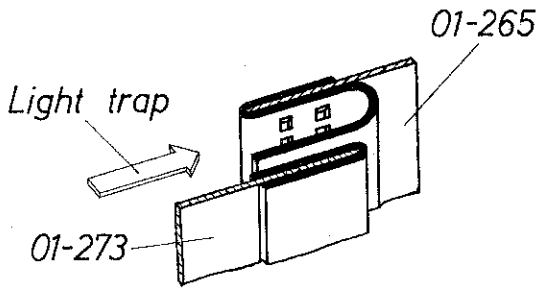


Fig. 74.1

Repair

Wind the Leica by a firm jerk on the winding lever 01-34 (see fig. 1.1). The release button can now be depressed. With some Leicas the release has to be depressed and the shutter released by careful tugging at the shutter blind. Wind the Leica again, set the shutter speed dial to B, and press the release button to let the first shutter blind run down. Look into the camera from the front, and check that the edge of the first shutter blind has not gone more than 1 to 2 mm past the edge of the picture aperture (see fig. 75.1).

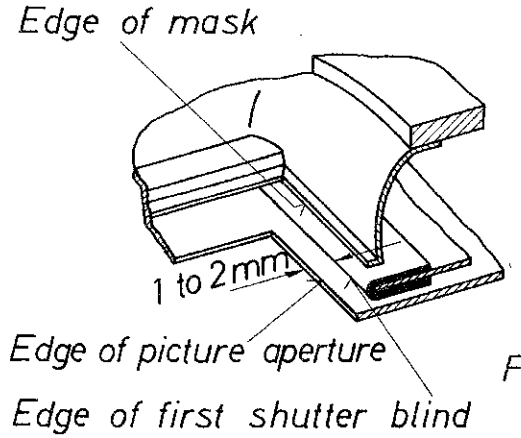


Fig. 75.1

If the edge of the shutter blind has gone too far, re-set the brake of the first shutter blind (see sheets 6 and 7). If necessary bend the light trap at the edge of the second shutter blind (see fig. 74.1) to shape.

The above trouble is most likely to arise at the 1/250 second setting, and the camera should be checked at this speed.

Cleaning and Lubricating the Escapement

Sheet 53

Note

Dirt in the escapement mechanism can result in increased exposure times. The escapement must be cleaned in perfectly pure cleaning petrol, and lubricated only with the lubricants listed below.

Cleaners and Lubricants

1. Lead-free cleaning petrol
2. Medium No. 10C
3. Lubricant No. 601 {ΔΔΔ}
4. Lubricant No. 602 {◉◉◉}
5. Lubricant No. 704 {● ● ●}
6. Brush

Sequence of operations

Remove the escapement mechanism from the camera (see sheet 11).

Place the escapement mechanism for 15 minutes in a bath of cleaning petrol.
Wind up the escapement several times while in this bath, and let it run down with the escapement anchor engaged.
Let the escapement mechanism dry out.
Apply the medium No. 10C drop by drop with a brush to all bearings and let it dry thoroughly.

Apply lubricant No. 602 to the two cups of the ratchet wheel bearings (see fig. 72.1).
Lubricate all other bearings lightly with lubricant No. 601.
The use of an ORSEA oil injector (scale setting 10) is recommended for this purpose.

Coat the contact rivet of the drive segment and the bent-down edge of the sliding member with lubricant No. 704 (see fig. 72.1).

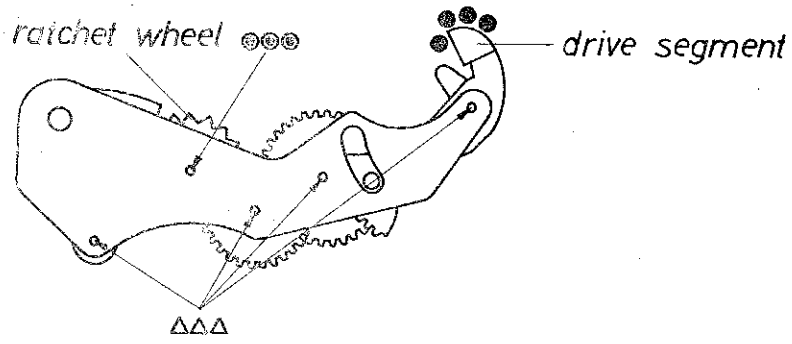


Fig. 72.1

Refit the escapement mechanism (see sheet 11).

Elimination of leakage of light

Sheet 54

Tools and parts

1. Screw driver 1,4 mm dia.
2. Grub screw M 1,7 x 1,8 DIN 553

In spite of the application of the cover plate 01-35 with cameras within the serial numbers 926 001 to 970 260, light may still leak in through the bore shown on Fig. 73.1.

Working procedure

Remove housing (see sheets 3 and 4).

Screw the grub screw M 1,7 x 1,8 DIN 553 with screw driver 1,4 ø into the appropiate bore (see fig. 73.1).

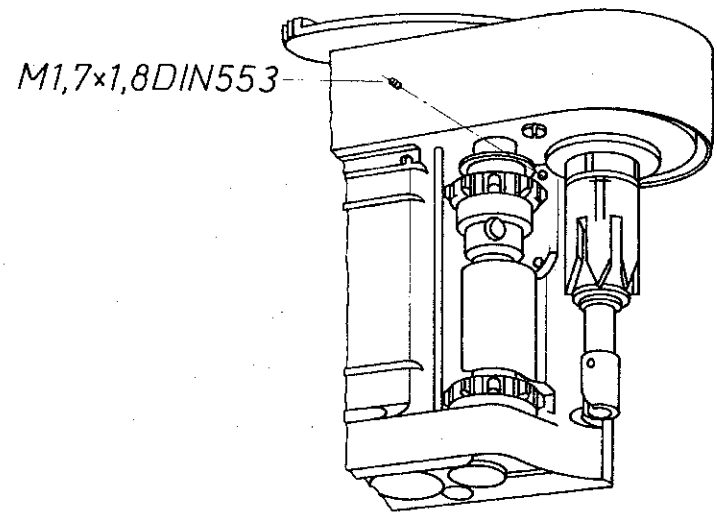
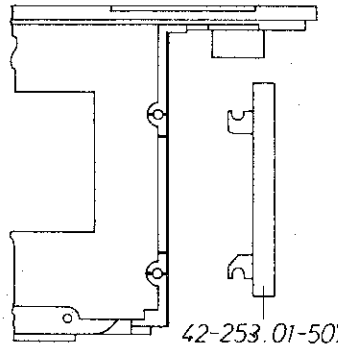
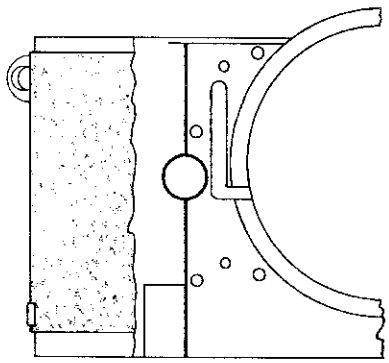
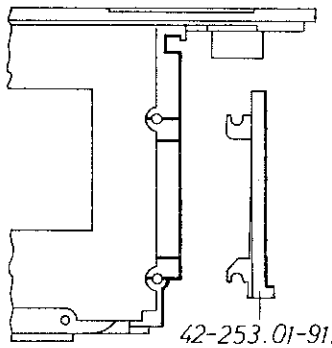
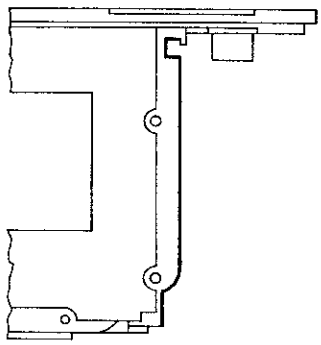
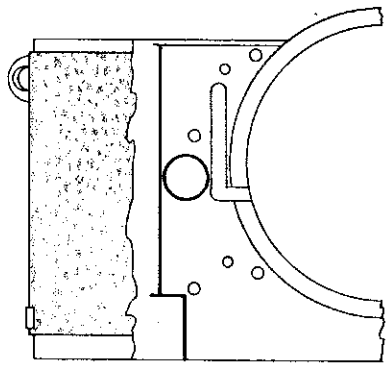


Fig. 73.1

Put housing back again (see sheets 3 and 4).

Main body / Light strip	Housing	Remarks
 42-253.01-507	42-582.01-357 	Main body with light strip 42-253.01-507 can only be used with housing 42-582.01-357.
 42-253.01-911		Main body with light strip 42-253.01-911 can only be used with housing 42-582.01-357.
	42-582.01-441 	Main body can only be used with housing 42-582.01-441. Without light strip.

krüse

Eliminating the Entrance of Stray Light into the Housing

Sheet 56

Tools and sundry requirements

1. Tweezers
2. Adhesive EC 880*
3. Strip of felt (2 x) 42-253.01-904

Sequence of Operations

Take off baseplate and hinged back.

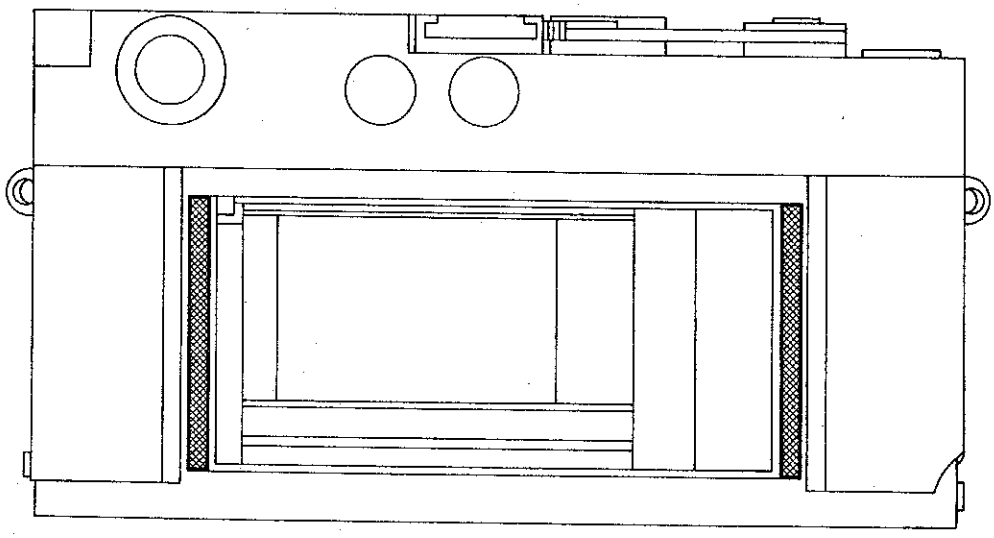


Fig. 74.1

Place housing with lens mount on to a support. Stick in two strips of felt with adhesive EC 880 (see Fig. 74.1). Take care that the strips of felt fit snugly along the cast shoulder of the rectangular opening of the housing.

After hardening of the adhesive remove superfluous remnants of the adhesive.

Replace hinged back and baseplate.

*See instructions for using adhesives, sheet 5.1, Spare Parts List for the Leica M2.

Removing malfunctions

Sheet 58

Fault

The data strip cannot be inserted.

Cause

The edges of the groove for the data masks are blunt.

Repair procedure

File out the edges of the groove for the data masks with a sharp file (see Fig. 76.1). Make good any damage to the surface with LN varnish No 416/09/1.

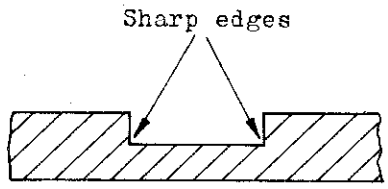


Fig. 76.1

TECHNISCHER KUNDENDIENST

Elimination of light leak on the rangefinder

sheet 58

Tools and Aids

1. Tweezers
2. UHU-hard

The following part is required:

1 cover piece 42-582.04-130

Sequence of operations

Remove the cover plate (see sheet 1).
Carefully take off the light shield 42-582.03-124 (see fig. 77.1).

Apply UHU-hard to the inner edges of the cover piece 42-582.04-130 and press it with a pair of tweezers against the face of the prism body.

Remove the bent sheet metal strip of the old type light shield and glue the light shield to the prism body.

Refitt the cover plate.

TECHNISCHER KUNDENDIENST

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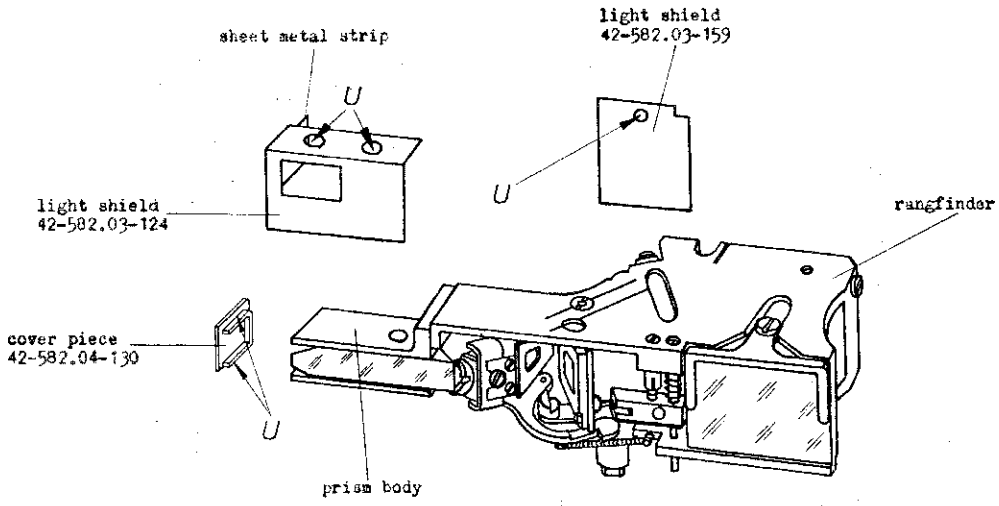


Fig. 77.1

Ernst Leitz G m b H Wetzlar	Calibration of Testing Instruments	Sheet 1 to 49

Index of Servicing Instruction Sheets

Description	Sheet
Instructions for calibrating the synchro test unit	1
	2
Instructions for calibrating the slow speed testing instrument	3
	4
Checking the speed of the light drum	5
Instructions for calibrating the alignment combination for Leicina	6
	7
	8
Instructions for calibrating the alignment combination for Leicina 8 SV	9
	10
	11
Instructions for calibrating the test light	12
	13
	14

TECHNISCHER KUNDENDIENST

27.5.66

Instructions for Calibrating the Synchro Test Unit 42-253.01 - Z1 W98

Calibrating unit	42-253.01-Z1 W 77
Mirror	42-253.01-Z1 W108
Screw driver, 5mm. dia.	

Note

When setting up and during the test procedure check that the indicator lamp of the synchro test unit shows the instrument to be ready for operation. Otherwise wrong readings will be obtained.

Sequence of operations

1. Clamp the mirror 42-253.01-Z1 W108 against the fixed camera platform below the aperture of the synchro-test unit.
   Push the synchro-test unit 42-253.01-Z1 W98 against the Vinidur stops of the calibrating unit 42-253.01-Z1 W77 so that the scale of the calibrating unit is in front of the mirror 42-253.01-Z1 W108.
   Before calibration, turn the knob in the left-hand side of the synchro-test unit clockwise; key 6 must not be depressed.
   Connect both instruments to the mains supply, and link them to each other with the cable of the calibrating unit.
2. Depress the key 5 of the synchro test unit. Briefly press the white button on the calibrating unit. The X (cross) mark must appear exactly on the 0 (zero) division on the scale of the calibrating unit (see fig. 1).
   If this is not the case, slacken the milled screw at the left of the calibrating unit and align the 0 division accurately with the X (cross) mark.
3. Depress the key 3 of the synchro test unit. Briefly press the white button of the calibrating unit. The ⁘ (four dots) mark must appear on the -1 (minus one) division of the scale.
   This corresponds to a delay of 11 milliseconds (see fig. 2).
4. Depress the key 4 of the synchro test unit. Press the white button of the calibrating unit. The ⟺ (single dash) mark must appear on the 0 (zero) division of the scale. The delay is then 18 milliseconds (see fig. 3).

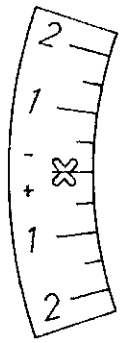


Fig.1

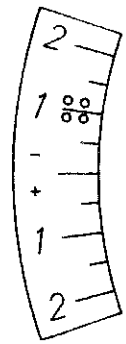


Fig.2

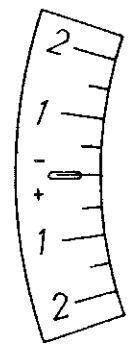


Fig.3

Instructions for Calibrating the Synchro Test Unit 42-253.01 - Z¹ W98

Calibrating the Synchro Test Unit

If the readings do not correspond to figs. 2 and 3, readjustment is necessary.

5. Unscrew the screw at the centre of the knob on the left-hand side of the synchro-test unit, and the four screws on the front panel, using the 5 mm diam. screw driver. Lift off the knob from the left, and pull out the front panel with the chassis from the front.

   Proceed with caution, the instrument is live!

6. Depress the key 3 of the synchro test unit.
   With the 5 mm. dia. screw driver adjust the screw on the potentiometer marked No. 3 (top front, on the assembly panel mounted behind the front panel). Turn this screw to the left or right until, on pressing the white button of the calibrating unit, the ⁘ (four dots) mark appears at the correct point of the scale as shown in fig. 2.

7. Depress the key 4 of the synchro test unit.
   With the 5 mm. dia. screw driver adjust the screw on the potentiometer marked No. 4. Turn this screw to the left or right until, on pressing the white button of the calibrating unit, the ⊖ (single dash) mark appears at the correct point of the scale as shown in fig. 3.

8. Re-check the calibrating steps 5. to 7. several times.

9. Push back the chassis into the housing, and screw down the front plate with four screws and the knob with one screw. Use the 5mm diam. screw driver.

Instructions for Calibrating the Slow Speed Testing Instrument 42 216 - Z1 W67

Calibrating unit 42 216 - Z1 A72
Screw driver, 3.5 mm. dia.
Screw driver, 5 mm. dia.

Note

The timing indications of the slow speed testing instrument 42 216-Z1 W67 must be checked with the calibrating unit 42 216-Z1 A72 at intervals of one to two months.
Recalibration is always essential after replacement of resistors, capacitors, etc.
If a valve or the photo-cell is replaced owing to wear or damage, or when valves and the photo-cell have been in use for about 1000 hours, the grid bias of the measuring valve 2 90 CC must be re-adjusted.
Calibration should be carried out with as accurate a mains voltage setting as possible.

Order of Procedure

Insert the Vinidur plastic holding ring for the fully assembled Leica in the slow speed testing instrument 42 216-Z1 W67.
Clamp on the calibrating unit 42 216-Z1 A72 like a Leica camera, and adjust the supporting leg to the correct height.

1. Calibrating the Grid Bias

1.1 Press the key without lettering (or marked E) on the slow speed testing instrument.
Set the scale on the calibrating unit to 4 (1/4 second).
Press the release lever on the calibrating unit.
1.2 If the grid bias is correctly set, the needle of the ammeter must indicate zero per cent (the zero mark), as shown in fig. 4.

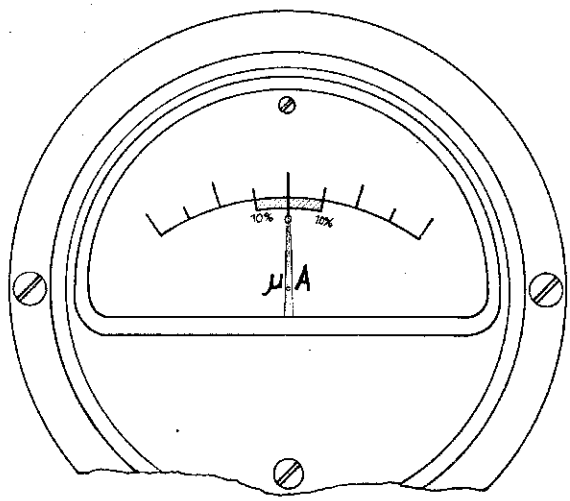


Fig. 4

Krüger

Instructions for Calibrating the Exposure Times Testing Set 42-253.01 Z1 W 111

Sheet 3

Tools

1. Screw driver 4 ø
2. Screw driver 5 ø
3. Mirror 42-253.01 Z1 W41
4. Mirror 42 216 Z1 W46

N.B.

The exposure times testing set should, if at all possible, be installed in a room with normal temperature and humidity levels.
Compare the electrical current data for the set with the mains current.
Switch on the set approx. 10 minutes prior to commencement of testing.

Sequence

Connect the exposure times testing set to the mains by means of the lead.

1. Calibration of the Mechanical Zero Setting

1.1 The needle of the indicator points to the mechanical zero setting (slightly to the left of 20 %) when set is switched off.
1.2 In the event of incorrect indication turn the setting screw situated at low centre of the indicator to left or right as necessary, using screw driver 4 ø.

2. Calibration of Zero-Percent Setting

2.1 Switch on set by throwing switch. The travel of the needle to the left is not significant for calibrating or testing procedures!
2.2 Depress key "E".
Depress "cancellation" button.
Depress "calibration" button for at least half a second.
2.3 The needle of the indicator should point to zero percent (0 %).
2.4 In the event of incorrect indication turn the setting screw situated slightly to the right of the "calibration" button, behind a bore-hole in the front plate carefully to the right or left using screw driver 5 ø until the zero setting is reached.
2.5 Depress "cancellation" button. The needle must strike out to the left beyond the mechanical zero setting.
2.6 Depress "calibration" button again and check that the zero percent (0 %) is indicated by the needle.
2.7 Repeat procedures 2.5 to 2.6 several times.

3. Setting the Trigger-Level

Caution; If deviations in the trigger setting should occur when using different mirrors, the setting must be carried out anew with every change of mirror.

3.1 Fit mirror 42-253.01 Z1 W41 into Leica M model.
3.2 Depress key "250". Allow shutter speed dial of Leica to engage at 1/250.
Depress sprung axis of potentiometer "Triggerniveau" for duration of setting by means of screwdriver 5 ø.
Depress "cancellation" key, release Leica shutter.
3.3 As soon as relay tube R9 to the right of the "cancellation" key glows red (which can be seen through the observation window) turn potentiometer to such an extent in an anticlockwise direction that R9 is just glowing after further release.
3.4 If tube does not glow, turn potentiometer in a clockwise direction until it glows weakly. (The setting is very delicate!)
3.5 Repeat procedure 3.2 to 3.3.
3.6 Insert mirror 42 216 Z1 W46 into the focal plane of a Leica with screwmount.
3.7 Repeat procedure 3.2 to 3.5.

Instructions for Calibrating the Slow Speed Testing Instrument 42 216 - Z1 W67

1.3 If the reading is incorrect, the following adjustment is necessary.

Unscrew the six screw of the front panel of the slow speed testing instrument with the 5 mm. dia. screw driver. Withdraw the front panel with the chassis from the housing.
Note: The instrument is live!
Use the 3.5 mm. dia. screw driver to adjust the position of the 5 kilo-ohm potentiometer to the left or right until, on repetition of the above calibration procedure, the needle of the ammeter points to the zero mark.

2. Calibrating the Test Times

2.1 Depress the key 1 (1 second) on the slow speed testing instrument.

Set the scale on the calibrating unit to 4 (1/4 second). Press the release lever on the calibrating unit four times in quick succession, without operating the discharge key on the slow speed testing instrument.

2.11 The needle of the ammeter must point within the red tolerance zone of the zero mark.
Variations up to ± 2 per cent are permissible.

2.12 If the reading is incorrect, the following adjustment is necessary.
The test times marked on the keys correspond to a series of potentiometers which are fitted on a panel mounted vertically on the chassis.
Use the 3.5 mm. dia. screw driver to turn the potentiometer (P13 - P25) corresponding to the appropriate test key to the left or right, until on repetition of the calibration the needle of the ammeter points to the zero mark. If the range of adjustment of the potentiometer is insufficient for this purpose, replace the appropriate compensating resistor (R13 - R25).

2.2 Depress the key 2 (1/2 second) on the slow speed testing instrument.
Set the scale on the calibrating unit to 4 (1/4 second).
Press the release lever on the calibrating unit twice in quick succession, without operating the discharge key on the slow speed testing instrument.

2.21 The ammeter should give the same reading as described under 2.11.

2.22 If the reading is incorrect, proceed as described under 2.12.

2.3 Depress the key 4 (1/4 second) on the slow speed testing instrument.
Set the scale on the calibrating unit to 4 (1/4 second). Briefly depress the release lever on the calibrating unit.

2.31 The ammeter should give the same reading as described under 2.11.

2.32 If the reading is incorrect, proceed as described under 2.12.

2.4 Check all test times.
The values set on the slow speed testing instrument must correspond with the settings on the scale of the calibrating unit.

Push the chassis back into the housing, and screw down the front panel with six screws, using the 5 mm. dia. screw driver.

Krüger

Checking the Speed of the Light Drum

42-253.01-Z1 W100

Sheet 5

Operation

Connect the light drum to the mains supply with the mains lead.
Move the control knob to "put in".

Speed Adjustment

Stroboscopic light patterns from the pilot lamp are visible in the narrow slit in the body on the front of the instrument.
When the speed is correctly set, the light pattern should be stationary.

To adjust the speed, turn the knob marked "speed control" to the left or right until the light pattern is stationary. Then fix the position of the knob by tightening the locking nut.

Transmission Test

For a transmission test place the front of the Leica model without camera back, or the Leica shutter, over the window of the light drum carrying a celluloid filter.
Insert the appropriate speed pattern (see Servicing Instructions) into the film aperture of the Leica.

Reflection Test

Place the Leica camera with closed housing on the camera platform so that the film aperture of the Leica is visible in the mirror on the housing of the light drum.
Insert the appropriate speed pattern (see Servicing Instructions) into the film track.

Lamp: 75 watt, Edison screw (E 27) cap.
Pilot lamp: 10 x 50 No. 1451 G1 55
made by ERG, Göttingen.

Instructions for Calibrating the Alignment Combination for Leicina

Sheet 6, 7 and 8

Tools

1. Screwdriver 5 ø
2. Measuring tube
3. Luxmeter
4. Calibration front plate 08-27.10 Z1 W12

Note

Place test set, if at all possible, in a room of normal temperature and humidity.
Compare current rating of the sets with mains current.
Calibrate these once daily or in the case of infrequent use of the adjustment combination, prior to adjusting the front plate.

Sequence of Operation

Connect up test light, indicator set with resistance preselector and stabilizier according to the diagram showing top view (see Fig. 5.1).

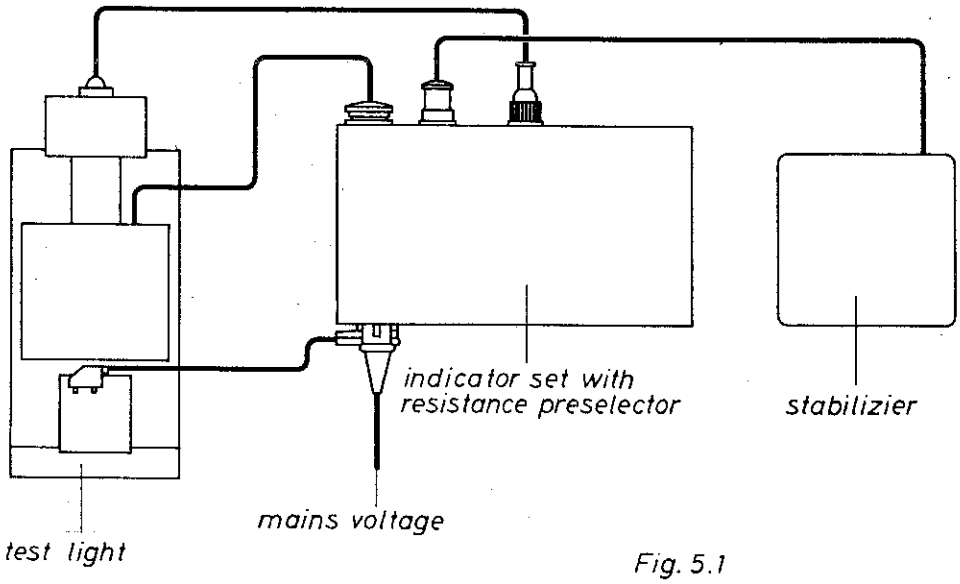


Fig. 5.1

Switch on indicator set at tumbler switch below signal lamp in front plate.
Allow apparatus to warm up for 15 minutes before commencing test sequence.

Instructions for Calibrating the Alignment Combination for Leicina

Continuation of sheet 6

1. Calibrating the Test Light 08-27.10 Z1 W5

1.1 Depress key 6.
1.2 Tilt front plate seating towards observer.
1.3 Connect measuring tube to luxmeter: Place red plug into red socket and black plug into black socket.
1.4 Depress milled knob to the left on the luxmeter front plate and turn to the right to "asb" position.
1.5 Remove protective cap from small cylinder of measuring tube.
1.6 Place protective cap with small cylinder over the small, illuminated opaque glass plate behind front plate seating.
1.7 The indicator must show a deflection towards the right on to the red markation.
If this does not occur the adjustment screw "P3" on the rear of the indicator set must be turned to left or right with the aid of screwdriver 5 ø.

2. Calibration of Indicator Set with Resistance Preselector 08-27.10 Z1 W13

2.1 Key 6 of test light remains depressed. Fit slip-on ring (see Fig. 6.1) over large illuminated opaque glass plate.
2.2 Affix calibration front plate 08-27.10 Z1 W12 on front plate seating.
2.3 Tilt front plate seating away from observer to such an extent that the lens hood of the calibration front plate and the large opague glass plate are just touching each other.
2.4 Using a wooden mallet tap against front plate seating. The indicator of the indicator set must move towards the right and show a steady reading of 0 (zero).

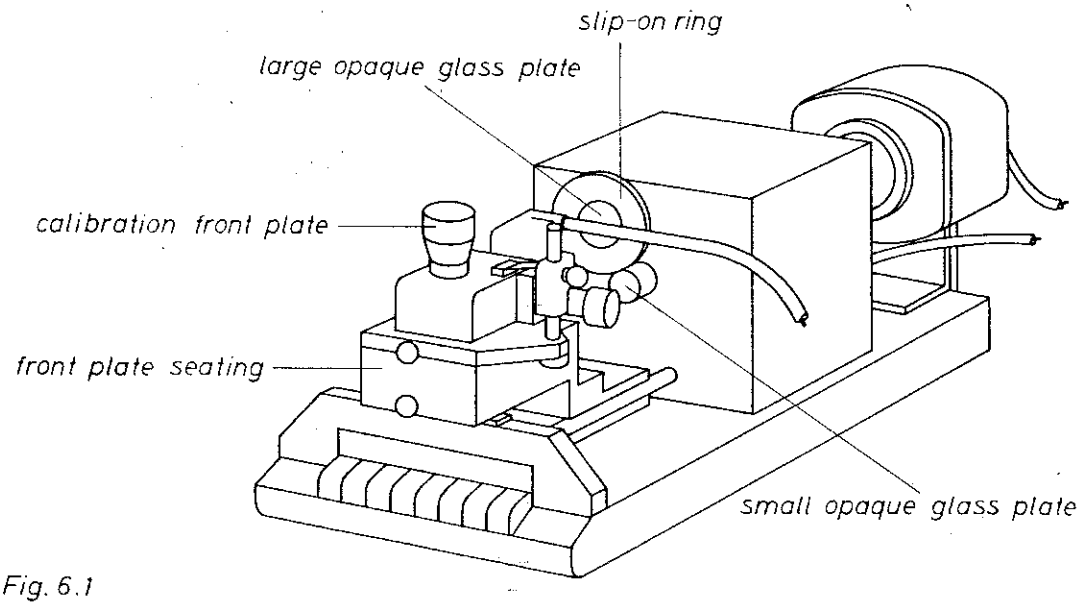


Fig. 6.1

Instructions for Calibrating the Alignment Combination for Leicina

Continuation of sheet 6 and 7

2.5 If incorrect reading is shown, using screwdriver 5 ø adjust screw which is situated to the right at the bottom next to the indicator area behind a borehole of the front plate (engraving 0) until 0 position is reached.

2.6 Depress key 7 .

2.7 Using a wooden mallet tap front plate seating: The arrow of the indicator set must move towards the right and show a reading of + 1 (plus one).

2.8 If incorrect reading is shown, adjust screw situated at the top right next to indicator area behind a rotating disc (engraving + 1) to right or left until indicator position + 1 (plus one) is reached.

2.9 Remove calibration front plate from front plate seating.

Instructions for Calibrating the Alignment Combination for Leicina 8 SV

Sheet 9, 10 and 11

Tools

1. Screwdriver 5 ⌀
2. Measuring tube
3. Luxmeter
4. Calibration front plate 08-30.10 Z1 W8
5. Shield 08-30.10 Z1 W6

Note

Place test set, if at all possible, in a room of normal temperature and humidity.
Compare current rating of the sets with mains current.
Calibrate these once daily or in the case of infrequent use of the adjustment combination, prior to adjusting the front plate.

Sequence of Operation

Connect up test light, indicator set with resistance preselector and stabilizier according to the diagram showing top view (see Fig. 7.1).

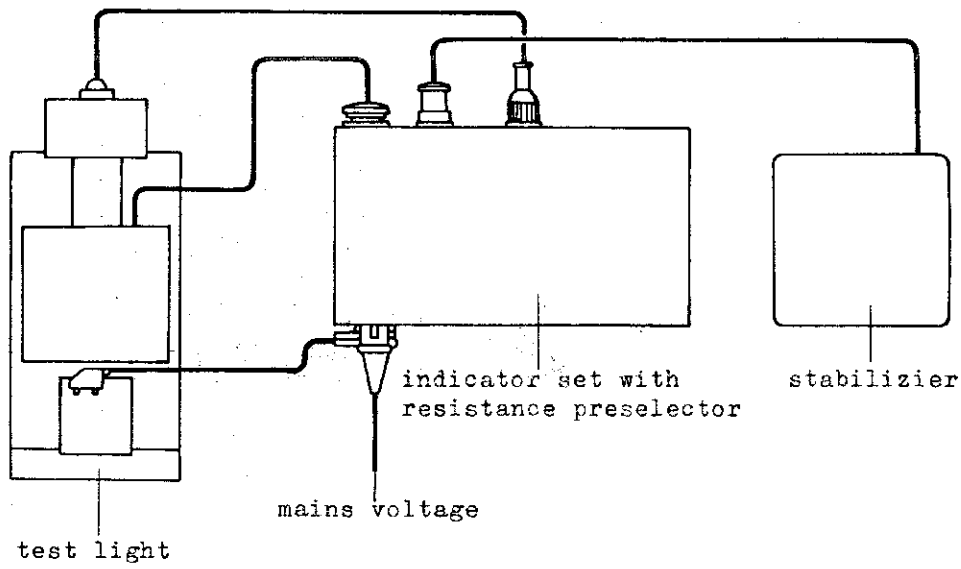


Fig. 7.1

Switch on indicator set at tumbler switch below signal lamp in front plate.
Allow apparatus to warm up for 30 minutes before commencing test sequence.

TECHNISCHER KUNDENDIENST

27. 5.66

TECHNISCHER KUNDENDIENST

Instructions for Calibrating the Alignment Combination for Leicina 8 SV

Continuation of sheet 9

1. Calibrating the Test Light 08-27.10 Z1 W5

1.1 Depress key 6.
1.2 Tilt front plate seating towards observer.
1.3 Connect measuring tube to luxmeter: Place red plug into red socket and black plug into black socket.
1.4 Depress milled knob to the left on the luxmeter front plate and turn to the right to "asb" position.
1.5 Remove protective cap from small cylinder of measuring tube.
1.6 Place protective cap with small cylinder over the small, illuminated opaque glass plate behind front plate seating.
1.7 The indicator must show a deflection towards the right on to the red markation.
If this does not occur the adjustment screw "P3" on the rear of the indicator set must be turned to left or right with the aid of screwdriver 5 ø.

2. Calibration of Indicator Set with Resistance Preselector 08-27.10 Z1 W13

2.1 Key 6 of test light remains depressed. Fit slip-on ring (see Fig. 8.1) over large illuminated opaque glass plate.
2.2 Affix calibration front plate 08-30.10 Z1 W8 on front plate seating. Fix the shield 08-30.10 Z1 W6 onto the calibration front plate.
2.3 Tilt front plate seating away from observer to such an extent that the shield of the calibration front plate and the large opague glass plate are just touching each other.
2.4 Using a wooden mallet tap against front plate seating. The indicator of the indicator set must move towards the right and show a steady reading of 0 (zero).

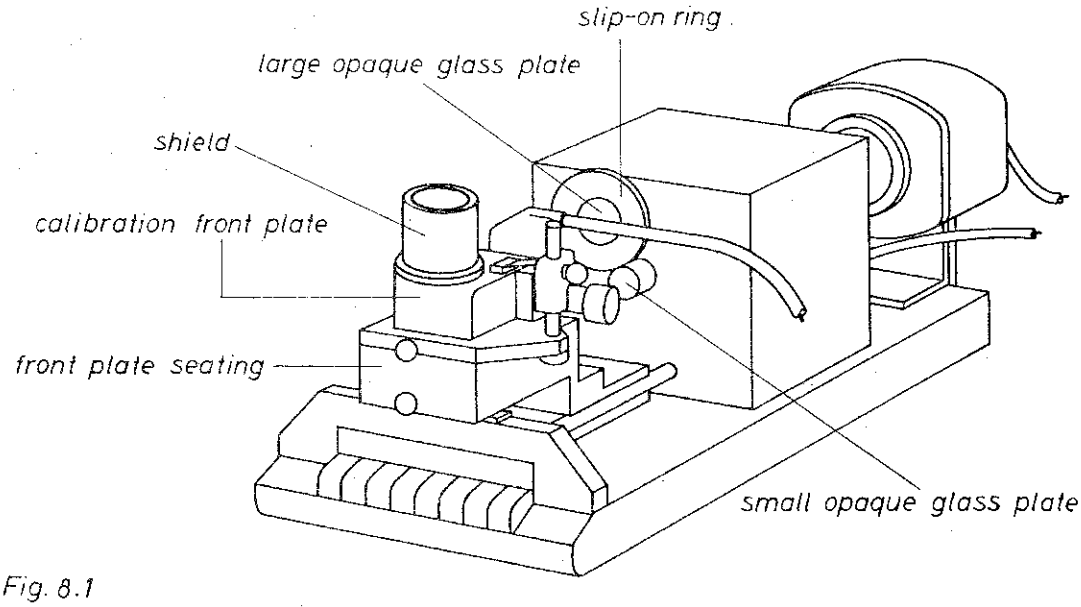


Fig. 8.1

Instructions for Calibrating the Alignment Combination for Leicina 8 SV

Continuation of sheet 9 and 10

2.5 If incorrect reading is shown, using screwdriver 5 ⌀ adjust screw which is situated to the right at the bottom next to the indicator area behind a borehole of the front plate (engraving 0) until 0 position is reached.

2.6 Depress key 7 .

2.7 Using a wooden mallet tap front plate seating: The arrow of the indicator set must move towards the right and show a reading of + 1 (plus one).

2.8 If incorrect reading is shown, adjust screw situated at the top right next to indicator area behind a rotating disc (engraving + 1) to right or left until indicator position + 1 (plus one) is reached.

2.9 Again press key 6 and check the indicator position.

3. Remove calibration front plate from front plate seating.

TECHNISCHER KUNDENDIENST

Instructions for calibrating the test light 42-655.01 Z1 W7

Sheets 12 to 14

Tools

1. Screwdriver 5 dia.
2. Calibrating instrument 42-655.01 Z1 W22
3. Exposure meter 42-655.01 Z1 W10

Note

If possible set up the testing instruments in a room with normal conditions of temperature and humidity. Compare the voltage of the instruments with that of the mains.
Calibrate the test light at least once per day.

Procedure

Connect test light, calibrating instrument, voltage stabilizer and exposure meter according to the arrangement of the diagram Fig. 9.1.

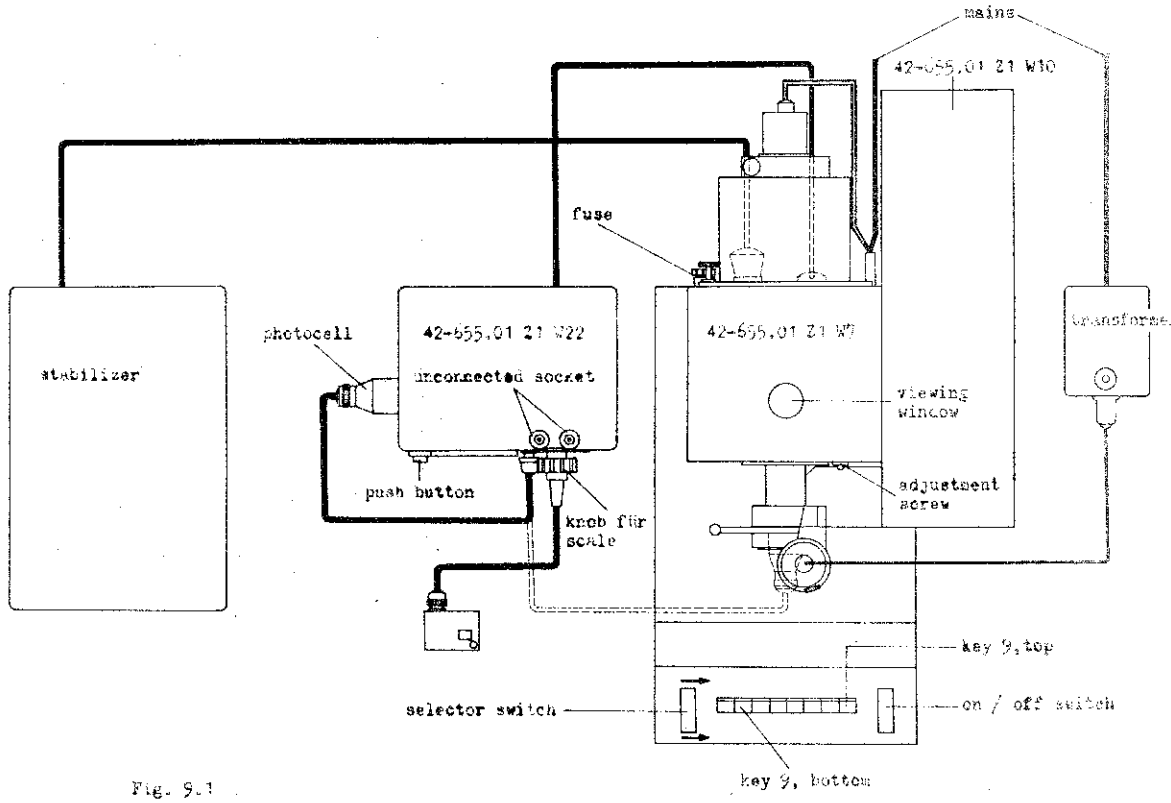


Fig. 9.1

Depress measuring lamp with the right-hand, white press button switch on the side marked "ON" (switch on).
Allow to warm up for 30 minutes before testing operations.

TECHNISCHER KUNDENDIENST

Instructions for calibrating the
test light 42-655.01 Z1 W7
Continuation of sheet 12

1. Calibrating the test light 42-655.01 Z1 W7 (Setting the luminous density)

1.1 Check the lamp setting and readjust, if necessary.

1.2 Depress the bottom of the white tumbler switch on the left of the switch panel.

1.3 Set light value 9 (2nd push button from the left).

1.4 Set the dial scale to the right of the measuring instrument on the calibrating unit 42-655.01 Z1 W22 at "Test" by rotating the black knob.

1.5 Remove the photocell from the calibrating unit 42-655.01 Z1 W22 and attach it to the light exit of the measuring lamp.

1.6 Depress the push button on the calibrating unit on the left above the measuring instrument. The pointer of the measuring instrument must rise and settle on the figure 1 marked in red (light value 9).

1.7 If the position of the pointer differs, it must be adjusted to this setting by rotating the screw on the top right of the measuring lamp next to the light exit.
This calibration can also be carried out with light value 9 of the upper row; in this case, the top of the left-hand tumbler switch must be depressed.

1.8 Check whether the luminous densities of the light values 8 and 9 of the upper and lower row are in agreement. Failing this the following adjustment must be made:

1.9 Set light value 8 of the upper row. Observe the extent to which the pointer of the indicator is deflected.

1.10 Set light value 8 of the lower row, and set it to the same deflection by means of the adjusting screw which can be reached through a bore on the right below the light exit.

Attention

Do not expose the photocell to the light for longer than 1 min.; store it in the dark when not in use.
Repeat calibration 1.1 to 1.7 several times a day.

2. Exchanging the lamp

2.1 Unscrew the knurled screw of the lamp housing on the back of the instrument. Pull out the lamp mount.

2.2 Release the clamping screw on the side of the lamp mount with a screwdriver and remove the bulb.

2.3 Insert the new lamp and tighten the clamping screw just sufficiently to secure the bulb.

2.4 Wipe off fingermarks on the bulb carefully and replace the lamp mount in the lamp housing.

TECHNISCHER KUNDENDIENST

Instructions for calibrating the

test light 42-655.01 Z1 W7

Continuation of sheet 12 and 13

3. Adjusting the lamp

3.1 Set light value 15.

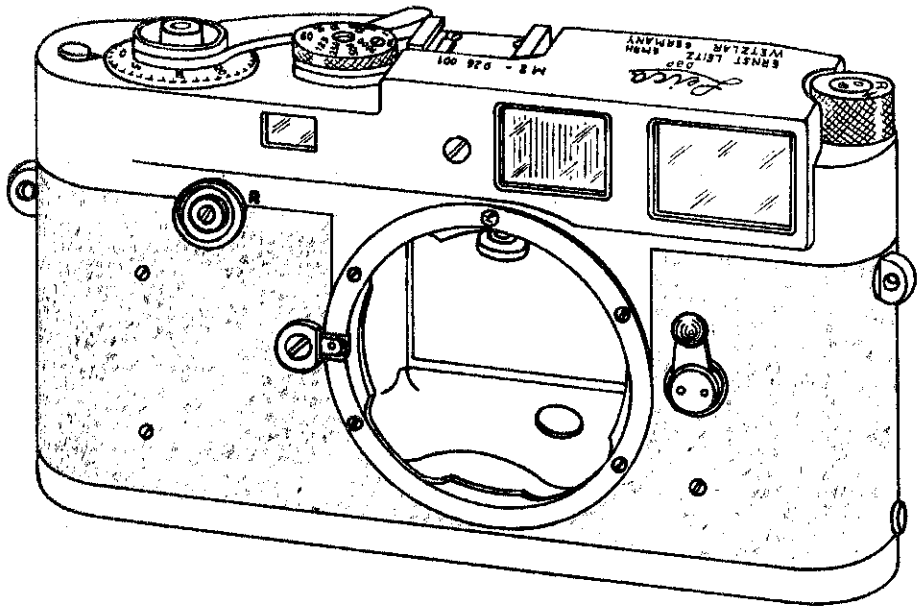
3.2 Observe the diaphragm disc through the viewing window on the top of the instrument. Adjust the mount lengthways until a square luminous patch is formed on the diaphragm disc.

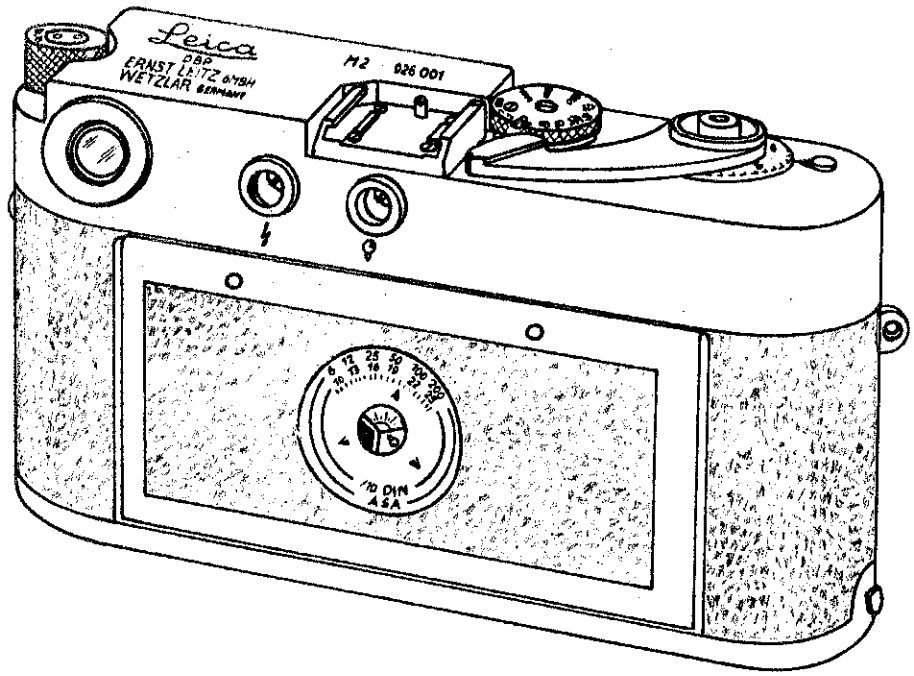
3.3 By rotating the mount align the edge of the luminous patch parallel to that of the light-attenuation plate (white glass plate next to the diaphragm aperture). Clamp the mount.

3.4 Unscrew the knurled screw at the back of the instrument and set the luminous patch above the largest diaphragm aperture by adjusting the lamp housing. The diaphragm aperture must be completely illuminated.

TECHNISCHER KUNDENDIENST

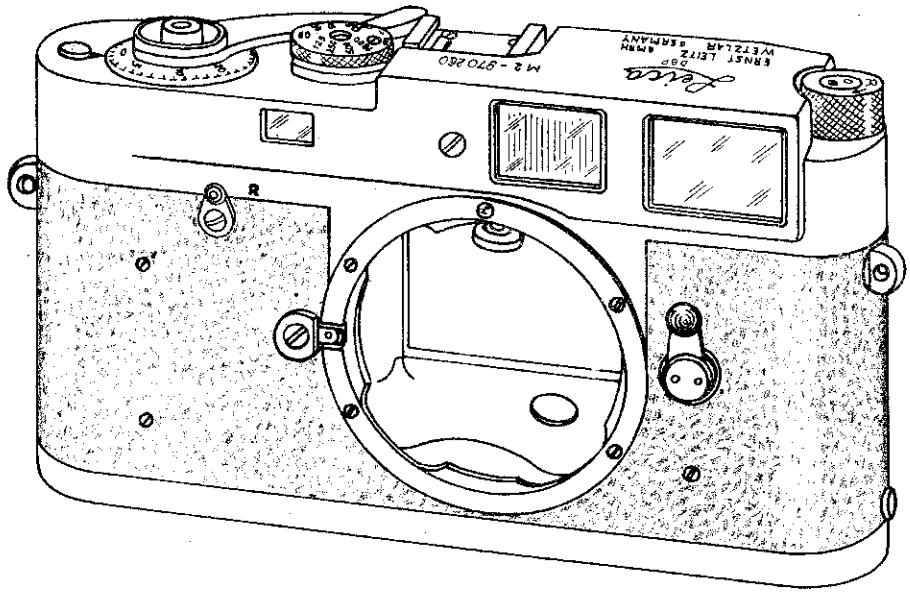
Ernst Leitz GmbH Wetzlar	Leica M2 - 926001...970 260	42-582/ 1.1

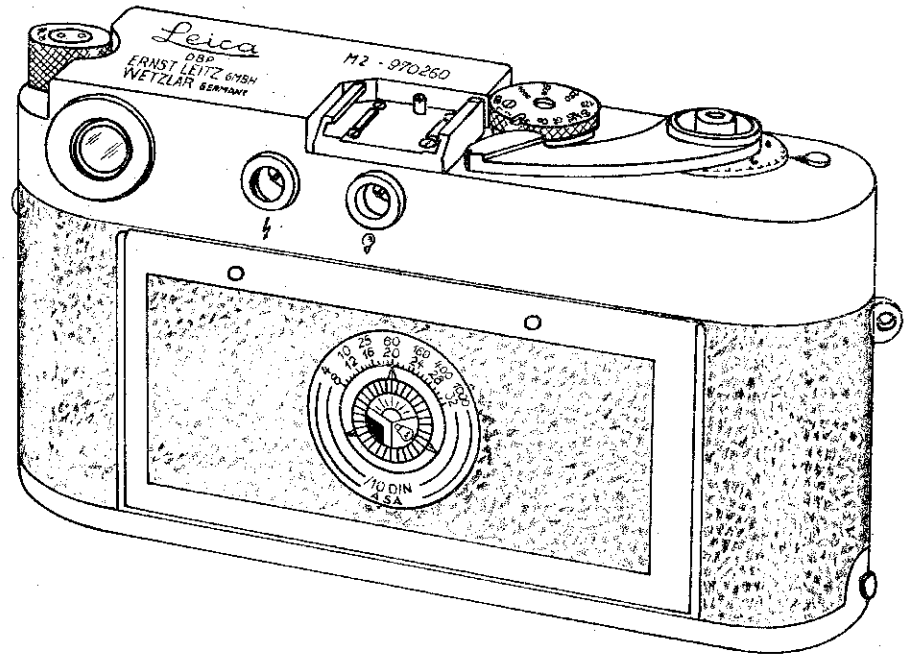




1.10.62

Ernst Leitz GmbH Wetzlar	Leica M2 - 970 261 ... 1004 150	42-582/-1.2





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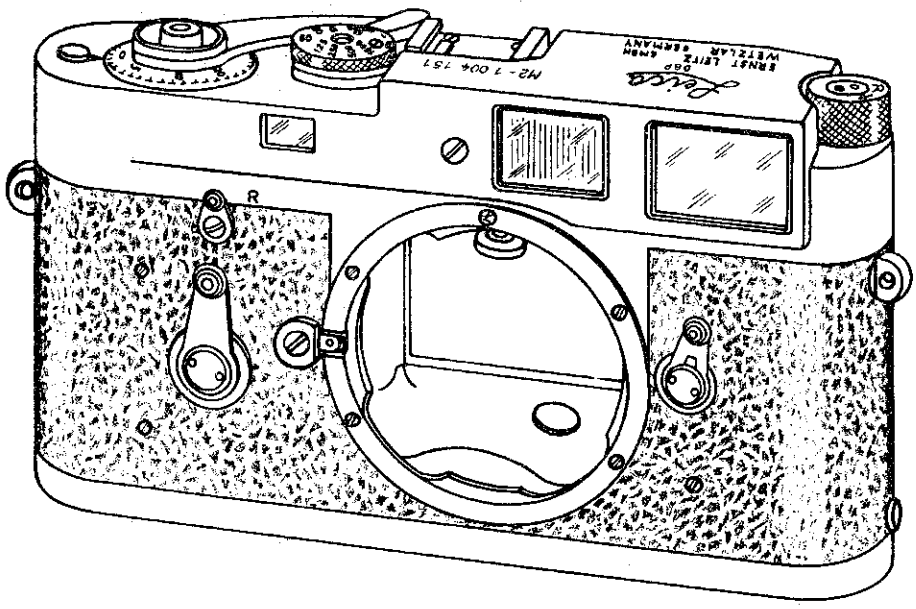
Leica
M2-1004 151
ERNST LEITZ GMBH
WETZLAR GERMANY
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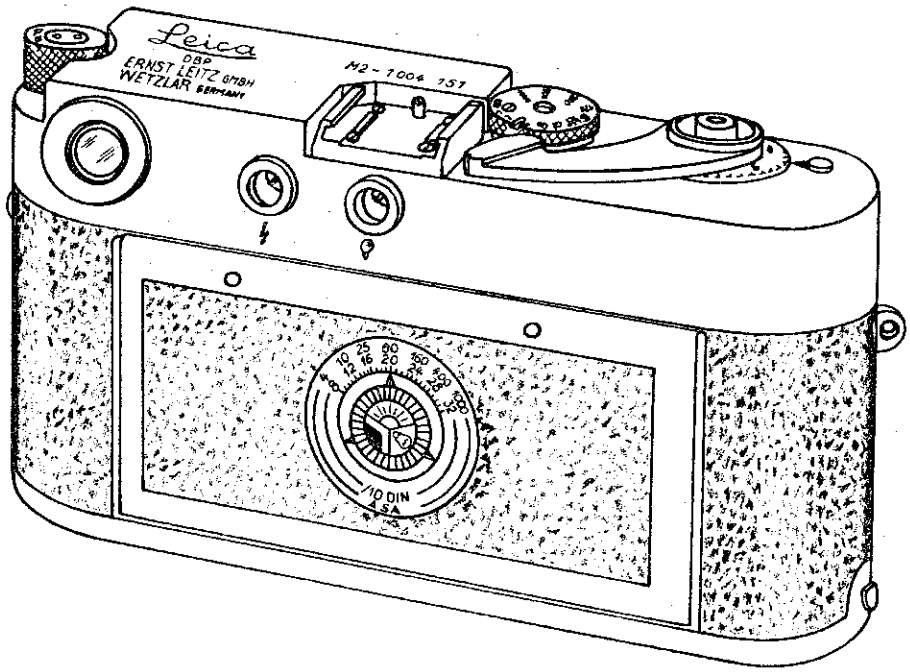
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ERNST LEITZ GMBH
WETZLAR GERMANY
M2-1004 151
10 DIN
ASA

1.12.60

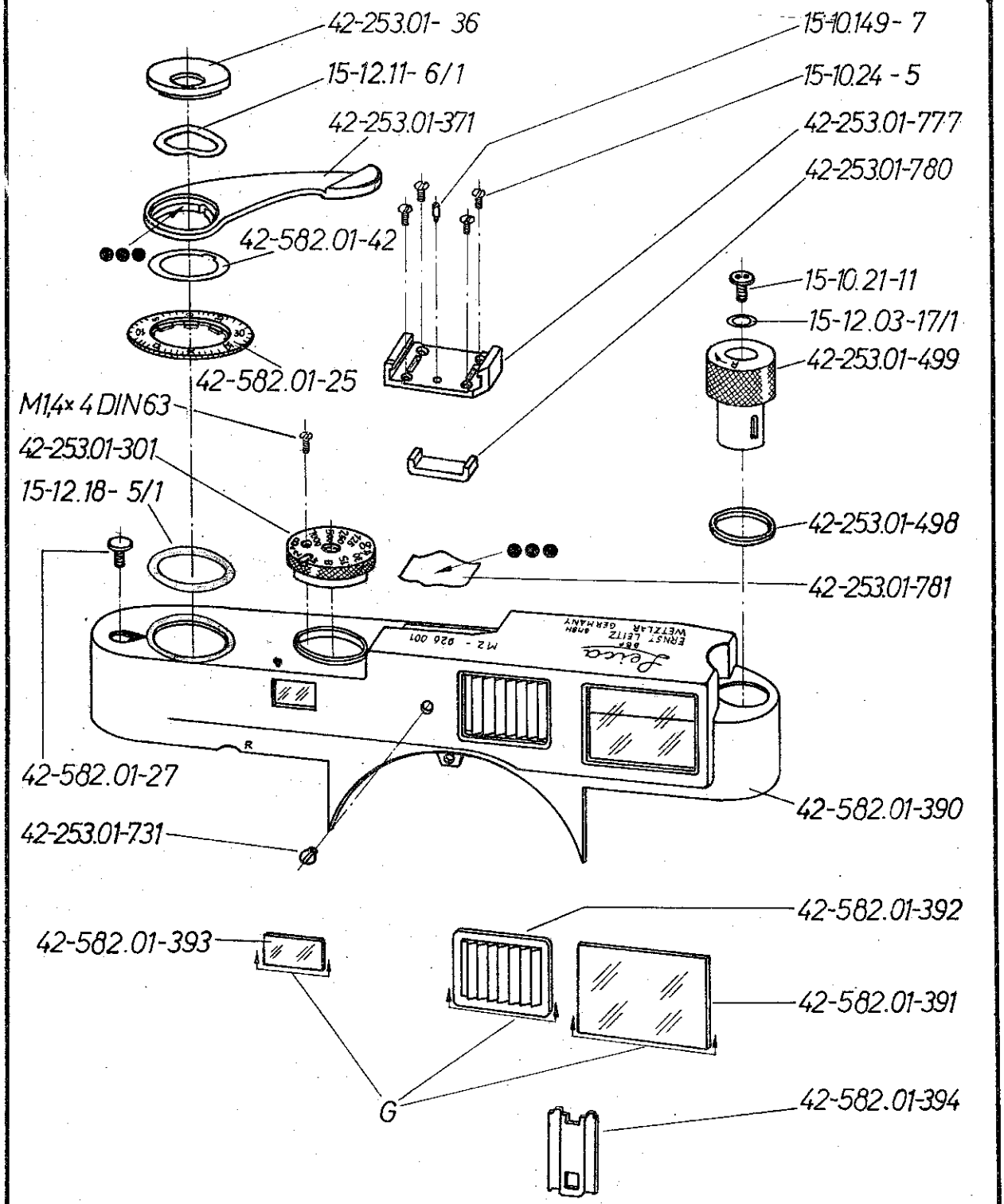
42-582/2.1

Leica M2 - 926001...

Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	 M3
42-253.01- 36	Schraubring screw ring	1	1
42-253.01-301	Schlitzstellknopf speed dial	1	1
42-253.01-371	Aufzughebel winding lever	1	1
42-253.01-498	Vorschraubring retaining ring	1	1
42-253.01-499	Rückwickelknopf rewind knob	1	1
42-253.01-731	Verschlußschraube cover screw	1	1
42-253.01-777	Befestigungsklemme acc. clip	1	1
42-253.01-780	Druckbacke pressure plate	1	1
42-253.01-781	Druckfeder pressure spring	1	1
42-582.01- 25	Zählscheibe counting disc	1	-
42-582.01- 27	Schraube screw	1	-
42-582.01- 42	Scheibe, bei Bedarf washer, when needed	1	-
42-582.01-390	Deckkappe, vollst. cover plate, complete	1	-
42-582.01-391	Fenster, linkes window, left	1	-
42-582.01-392	Beleuchtungsfenster illuminating window	1	-
42-582.01-393	Fenster, rechtes window, right	1	-
42-582.01-394	Halteleiste stop bracket	1	-
M1,4 x 4 DIN 63	Senkschraube, verchromt countersunk screw, chrome-plated	1	1
15-10.149- 7	Anschlagschraube, verchromt stop screw, chrome-plated	1	1
15-10.21 -11	Schraube, verchromt screw, chrome-plated	1	1
15-10.24 - 5	Befestigungsschraube, verchromt screw, chrome-plated	4	4
15-12.03-17/1	Federscheibe, brüniert spring washer, burnished	1	1
15-12.11- 6/1	Feder spring	1	1
15-12.18- 5/1	Dichtungsscheibe sheet gasket	1	-

1.3.62



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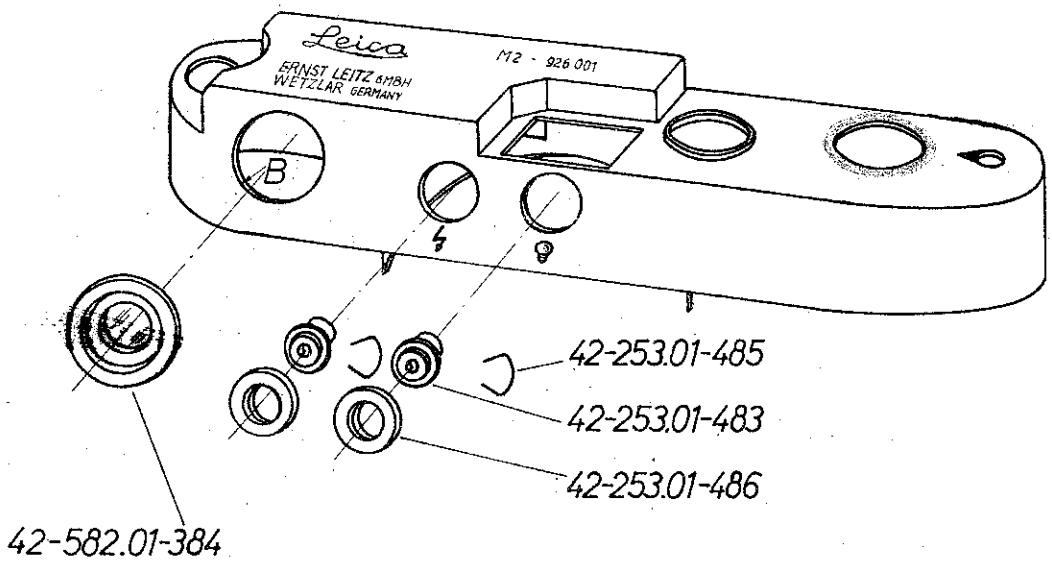
1. 3. 62

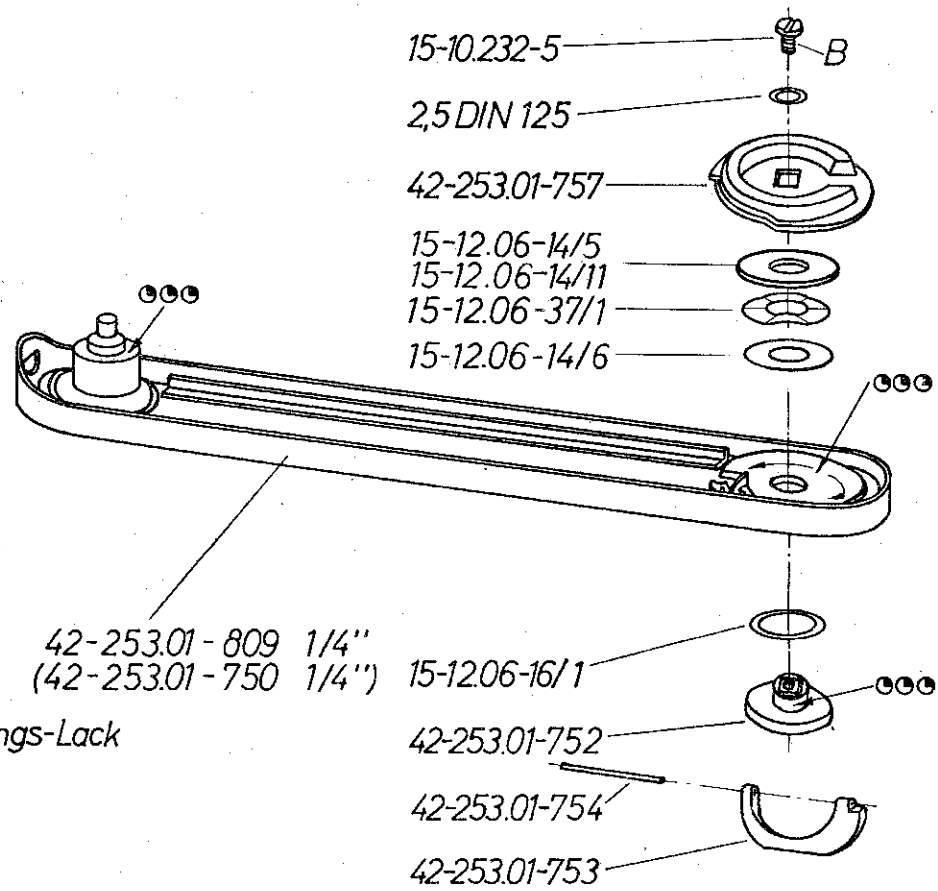
42-582/ 3.1	Leica M2 926 001...	Leitz WETZLAR

Bestell-Nr. Part-No.	Benennung Description	Leica-Mod. M2	M3
42-253.01-483	Buchse bushing	2	2
42-253.01-485	Feder spring	2	2
42-253.01-486	Abschlußkappe cover ring	2	2
42-253.01-750	Deckel, komplett (1/4") base plate, complete (1/4")	1	1
42-253.01-752	Knebel lock knob	1	1
42-253.01-753	Klappbügel handle	1	1
42-253.01-754	Lagerbolzen bearing pin	1	1
42-253.01-757	Riegelteller locking plate	1	1
42-253.01-809	Deckel, genietet (1/4") base plate, riveted (1/4")	1	1
42-582.01-384	Augenlinse, gefaßt eyelens, spunin	1	-
2,5 DIN 125	Scheibe washer	1	1
15-10.232- 5	Schraube, schwarz halbglanz screw, black semimat	1	1
15-12.06-14/5	Zwischenscheibe intermediate washer	1	1
15-12.06-14/6	Scheibe 0,5 mm dick, nach Bedarf washer 0,5 mm thick, when needed	1	1
15-12.06-14/11	Scheibe 0,2 mm dick, nach Bedarf washer 0,2 mm thick, when needed	1	1
15-12.06-16/1	Scheibe washer	1	1
15-12.06-37/1	Federscheibe spring washer	1	1

TECHNISCHER KUNDENDIENST

21.11.66





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B Sicherungs-Lack

TECHNISCHER KUNDENDIENST

21.11.66

Leica M2 926 001 . 970 259

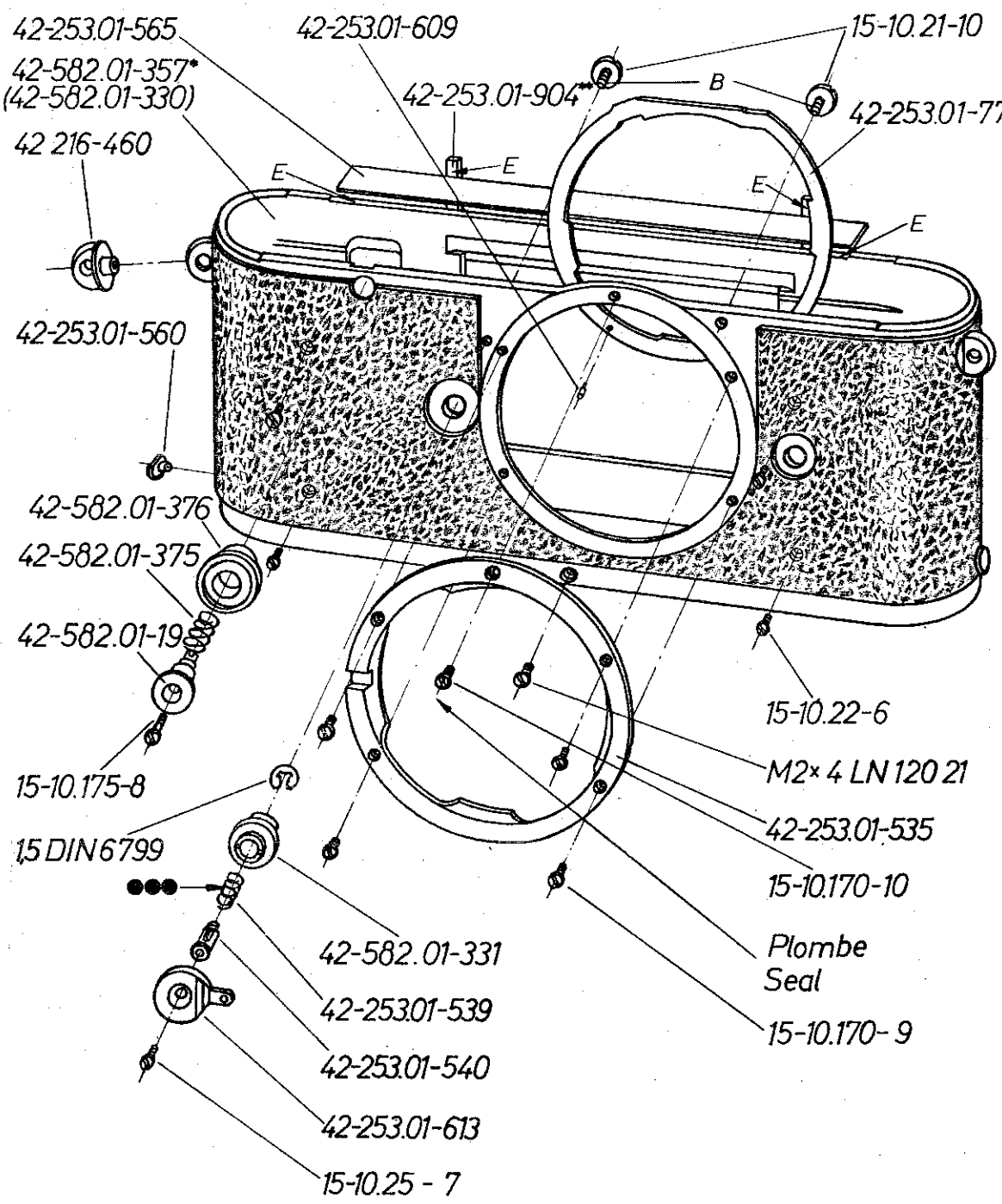
Leitz WETZLAR

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M1	M3
42 216 -460	Öse eyelet	2	2	-
42-253.01-535	Anschlagring * flange ring	1	1	1
42-253.01-539	Druckfeder pressure spring	1	1	1
42-253.01-540	Führungsbolzen guide bolt	1	1	1
42-253.01-560	Niet rivet	1	1	1
42-253.01-565	Dichtungsstreifen sealing strip	1	1	1
42-253.01-609	Niet rivet	1	1	1
42-253.01-613	Raststück stop lever	1	1	1
42-253.01-773	Federring, genietet spring ring, riveted	1	1	1
42-253.01-904	Filzstreifen feld strip	2	2	2
42-582.01- 19	Druckknopf pressure knob	1	1	-
42-582.01-330	Gehäuse, vollständig housing, complete	1	-	-
42-582.01-331	Führungsbuchse guide bush	1	1	-
42-582.01-357	Gehäuse, genietet housing, riveted	1	-	-
42-582.01-375	Druckfeder pressure spring	1	1	-
42-582.01-376	Hülse sleeve	1	1	-
1,5 DIN 6799	Sicherungsscheibe retaining washer	1	1	1
M 2 x 4 LN 120 21	Schraube, brüniert screw, burnished	1	1	1
15-10.170- 9	Schraube, verchromt screw, chrome-plated	4	4	4
15-10.170-10	Schraube, brüniert screw, burnished		1	1
15-10.175- 8	Schraube, verchromt screw, chrome-plated	1	1	-
15-10.21 -10	Schraube, brüniert screw, burnished	4	4	4
15-10.22 - 6	Schraube, schwarz halbmatt screw, black semimat	4	4	4
15-10.25 - 7	Schraube, verchromt screw, chrome-plated	1	1	1

*es kann auch der Anschlagring 42-253.01-938 jedoch nur in Verbindung mit 42-253.01-939 und 4 mal 42-253.01-940 verwendet werden (siehe Blatt 4.4)
the flange ring 42-253.01-938 can be used, but only in connection with 42-253.01-939 and 4 times 42-253.01-940 (see sheet 4.4)

TECHNISCHER KUNDENDIENST

21.11.58



1. 3.62

●●● 704
B Sicherungslack
E Kleber EC 880

* siehe Reparaturanleitung, Blatt 55.1
see servicing instruction, sheet 55.1

** siehe Reparaturanleitung, Blatt 56.1
see servicing instruction, sheet 56.1

Leica M2 970 260...1004 150

Leitz WETZLAR

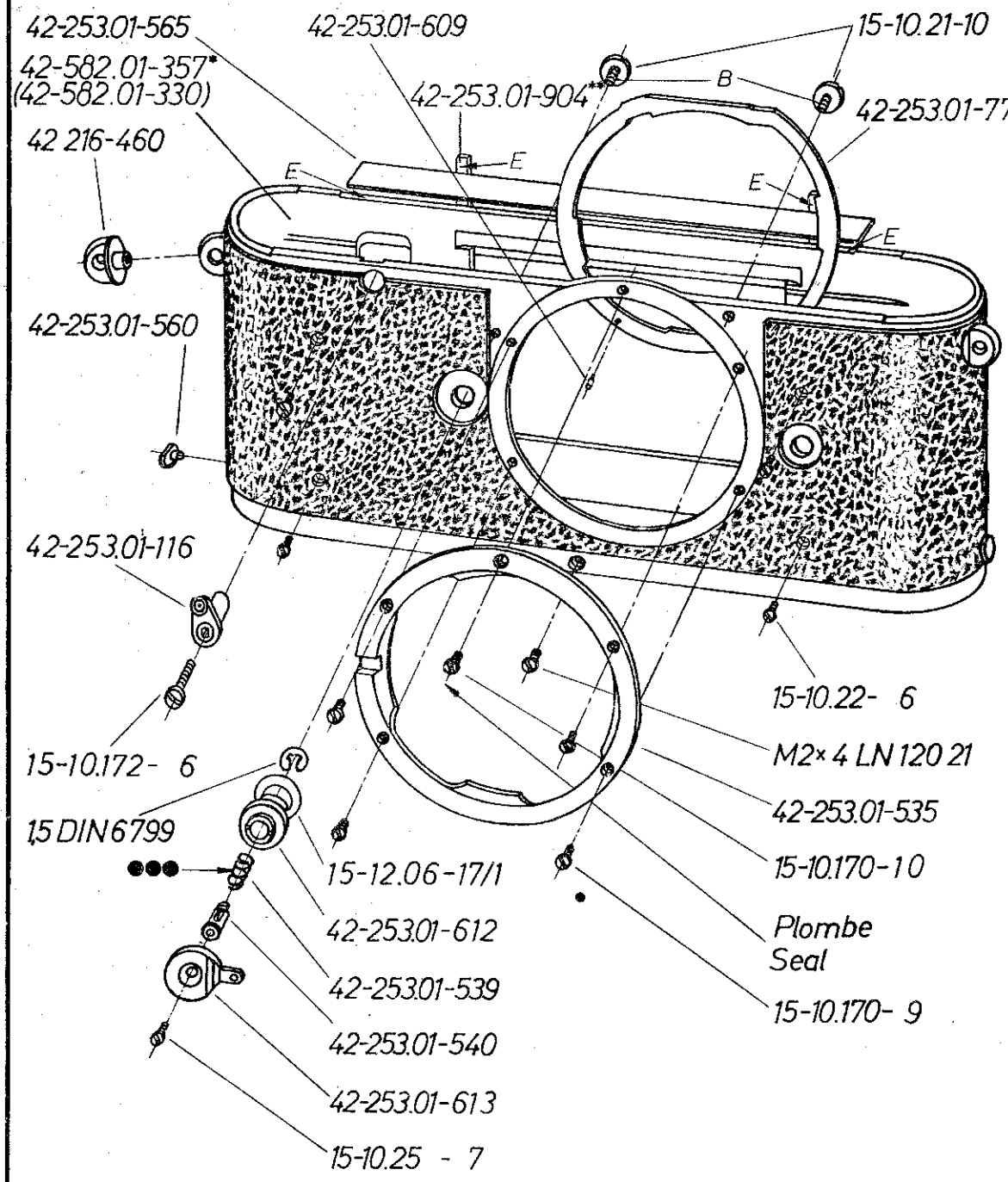
Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
42 216 -460	Öse eyelet	2	2	2
42-253.01-116	Hebel lever	1	1	1
42-253.01-535	Anschlagring * flange ring	1	1	1
42-253.01-539	Druckfeder pressure spring	1	1	1
42-253.01-540	Führungsbolzen guide bolt	1	1	1
42-253.01-560	Niet rivet	1	1	1
42-253.01-565	Dichtungsstreifen sealing strip	1	1	1
42-253.01-609	Niet rivet	1	1	1
42-253.01-612	Führungsbuchse guide bush	1	1	1
42-253.01-613	Raststück stop lever	1	1	1
42-253.01-773	Federring, genietet spring ring, riveted	1	1	1
42-253.01-904	Filzstreifen feld strip	2	2	2
42-582.01-330	Gehäuse, vollständig housing, complete	1	-	-
42-582.01-357	Gehäuse, genietet housing, riveted	1	-	-
1,5 DIN 6799	Sicherungsscheibe retaining washer	1	1	1
M 2 x 4 LN 120 21	Schraube, brüniert screw, burnished	1	1	1
15-10.170- 9	Schraube, verchromt screw, chrome-plated	4	4	4
15-10.170-10	Schraube, brüniert screw, burnished	1	1	1
15-10.172- 6	Schraube, verchromt screw, chrome-plated	1	1	1
15-10.21 -10	Schraube, brüniert screw, burnished	4	4	4
15-10.22 - 6	Schraube, schwarz halbmatt screw, black semimat	4	4	4
15-10.25 - 7	Schraube, verchromt screw, chrome-plated	1	1	1
15-12.06-17/1	Scheibe, bei Bedarf washer, when needed			

*es kann auch der Anschlagring 42-253.01-938 jedoch nur in Verbindung mit 42-253.01-939 und 4 mal 42-253.01-940 verwendet werden (siehe Blatt 4.4)
the flange ring 42-253.01-938 can be used, but only in connection with 42-253.01-939 and 4 times 42-253.01-940 (see sheet 4.4)

TECHNISCHER KUNDENDIENST

21.11.66

Krüger



●●● 704
B Sicherungslack
E Kleber EC 880

* siehe Reparaturanleitung, Blatt 55.1
see servicing instruction, sheet 55.1

** siehe Reparaturanleitung, Blatt 56.1
see servicing instruction, sheet 56.1

1. 3. 62

Ernst Leitz GmbH Wetzlar	Leica M2 1004 151...1138 700	42-582/4.3

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
15-10.22 - 6	Schraube, schwarz halbmatt screw, black semimat	4	4	4
15-10.25 - 7	Schraube, verchromt screw, chrome-plated	1	1	1
15-12.03 -13/1	Unterlegscheibe washer	1	1	-
15-12.03 -14/1	Unterlegscheibe 0,1 mm, nach Bedarf washer 0.1 mm, when needed	1	1	-
15-12.03-14/2	Unterlegscheibe 0,06 mm, nach Bedarf washer 0.06 mm, when needed	1	1	-
15-12.06-17/1	Scheibe, bei Bedarf washer, when needed			
1,5 DIN 6799	Sicherungsscheibe retaining washer	2	2	-

* es kann auch der Anschlagring 42-253.01-938 jedoch nur in Verbindung mit 42-253.01-939 und 4 mal 42-253.01-940 verwendet werden (siehe Blatt 4.4)
the flange ring 42-253.01-938 can be used, but only in connection with 42-253.01-939 and 4 times 42-253.01-940 (see sheet 4.4)

42-582/4.3	Leica M2 1004 151...1 138 700	Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
42 216 -460	Öse eyelet	2	2	2
42-253.01-116	Hebel lever	1	1	1
42-253.01-535	Anschlagring* flange ring	1	1	1
42-253.01-539	Druckfeder pressure spring	1	1	1
42-253.01-540	Führungsbolzen / guide bolt	1	1	1
42-253.01-554	Abstimmscheibe 0,1 mm, nach Bedarf adjusting washer 0.1 mm, when needed			
42-253.01-560	Niet / rivet	1	1	1
42-253.01-565	Dichtungsstreifen sealing strip	1	1	1
42-253.01-566	Abstimmscheibe 0,2 mm, nach Bedarf adjustment washer 0.2 mm, when needed	1	1	-
42-253.01-593	Kupplungsschraube coupling screw	1	1	-
42-253.01-594	Flansch flange	1	1	-
42-253.01-595	Buchse bushing	1	1	-
42-253.01-596	Abschlußkappe cover plate	1	1	-
42-253.01-597	Schraube screw	1	1	-
42-253.01-598	Führungsbuchse guide bushing	1	1	-
42-253.01-599	Druckfeder pressure spring	1	1	-
42-253.01-600	Druckbolzen pressure bolt	1	1	-
42-253.01-605	Hebel, genietet lever, riveted	1	1	-
42-253.01-609	Niet rivet	1	1	1
42-253.01-612	Führungsbuchse / guide bush	1	1	1
42-253.01-613	Raststück / stop lever	1	1	1
42-253.01-773	Federring, genietet/spring ring, riveted	1	1	1
42-253.01-904	Filzstreifen / feld strip	2	2	2
42-253.01-948	Auslösebolzen, Untergruppe release bolt, sub group	1	1	-
42-253.01-955	Entkupplung, mont. coupling, ass.	1	1	-
42-582.01-440	Gehäuse, voilständig housing, complete	1	-	-
42-582.01-441	Gehäuse, genietet housing, riveted	1	-	-
M1,7x3 LN 120 19	Schraube, brüniert screw, burnished	3	3	-
M 2 x 4 LN 120 21	Schraube, brüniert screw, burnished	1	1	1
15-10.170- 9	Schraube, verchromt screw, chrome-plated	4	4	4
15-10.170-10	Schraube, brüniert screw, burnished	1	1	1
15-10.172- 6	Schraube, verchromt screw, chrome-plated	1	1	1
15-10.21 -10	Schraube, brüniert screw, burnished	4	4	4

TECHNISCHER KUNDENDIENST

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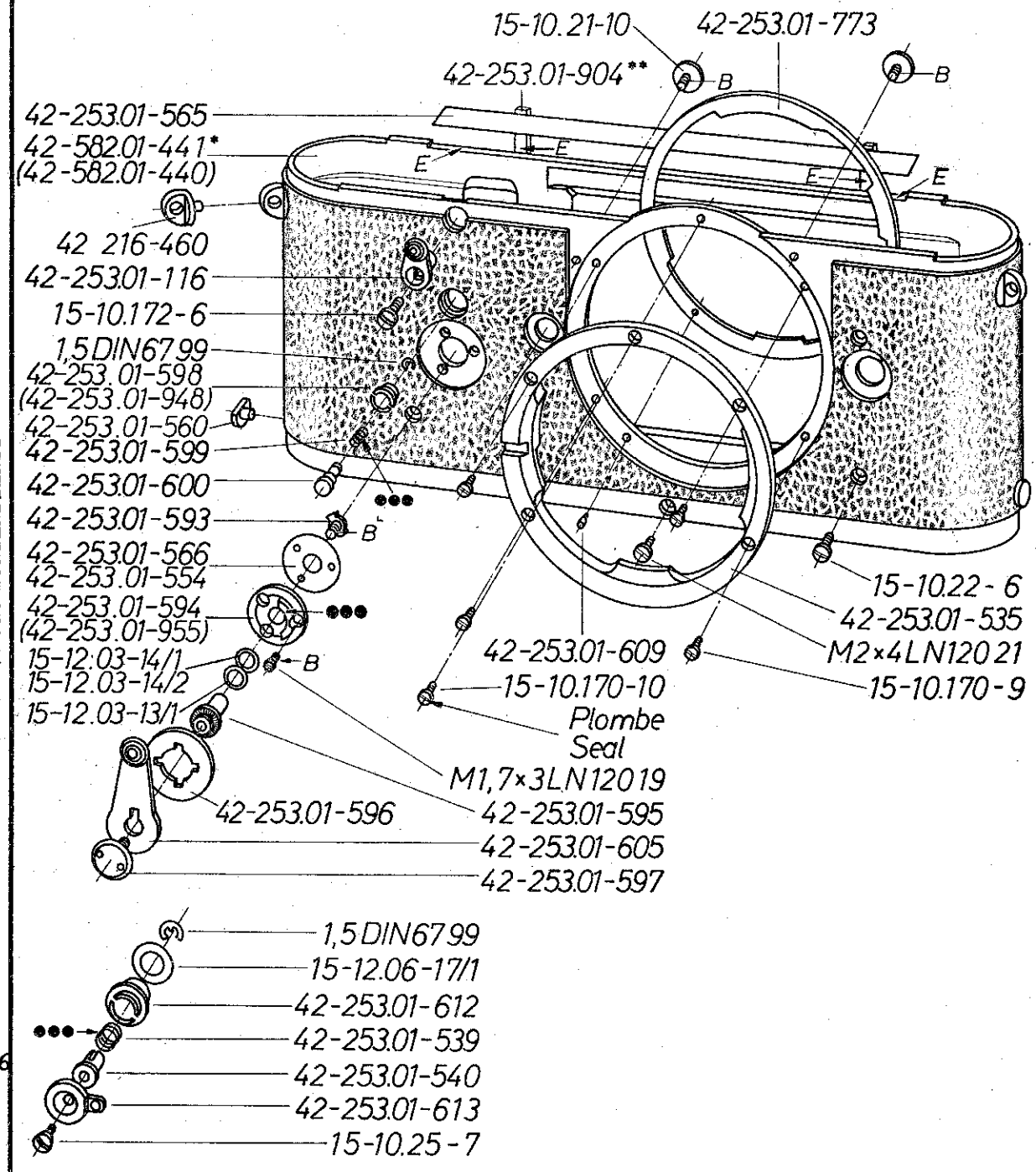


TECHNISCHER KUNDENDIENST

21.11.66

●●● 704
B Sicherungslack
E Kleber EC 880

* siehe Reparaturanleitung, Blatt 55.1
see servicing instruction, sheet 55.1

** siehe Reparaturanleitung, Blatt 56.1
see servicing instruction, sheet 56.1

Krü/Se

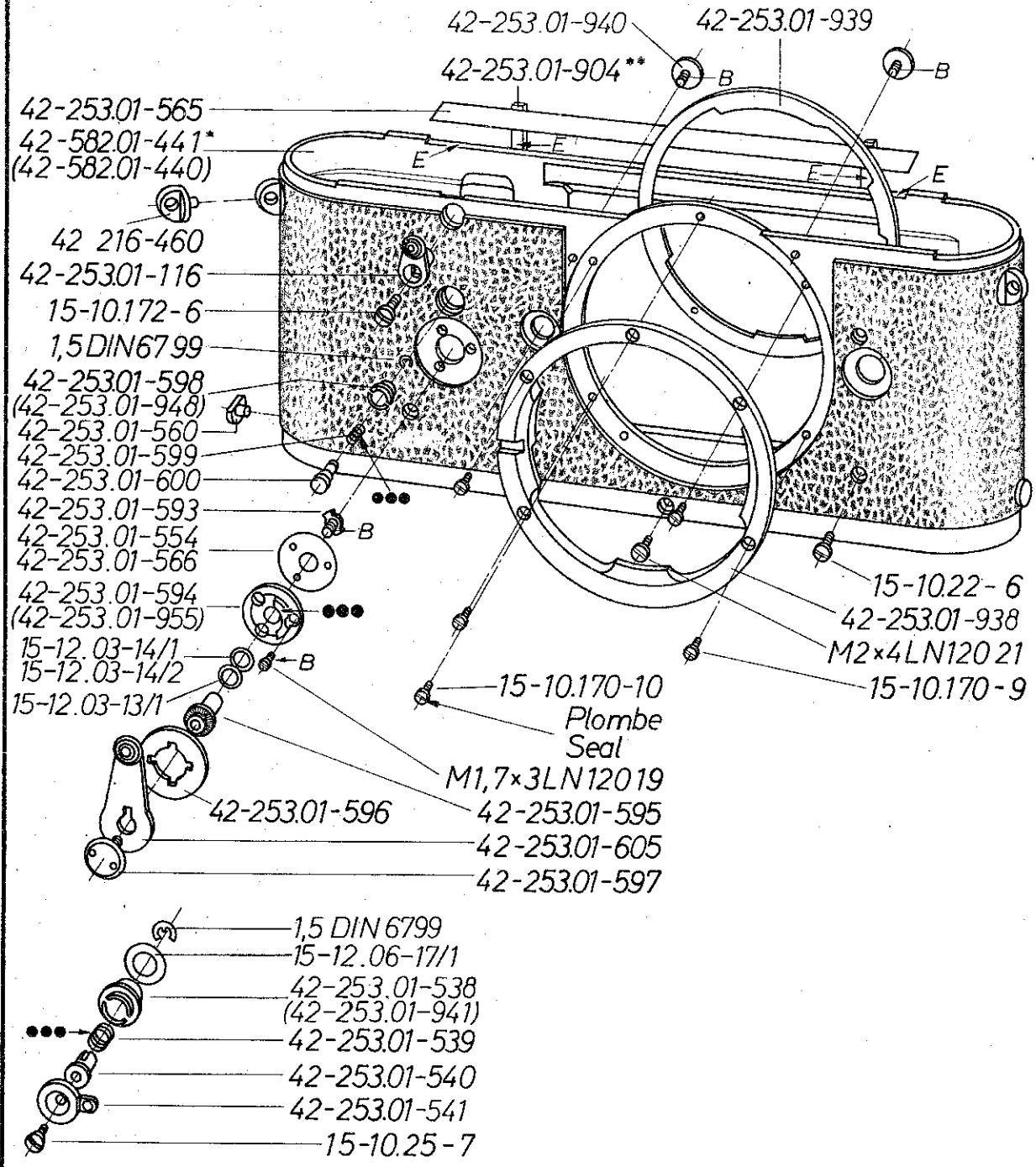
42-582/4.4	Leica M2 1138 701...	Leitz WETZLAR

Bestell-Nr. Part-No.	Benennung Description	Leica-Modell M2	M1	M1
15-10.170- 9	Schraube, verchromt screw, chrome-plated	4	4	4
15-10.170-10	Schraube, brüniert screw, burnished	1	1	1
15-10.172- 6	Schraube, verchromt screw, chrome-plated	1	1	1
15-10.22 - 6	Schraube, schwarz halbmatt screw, black semimat	4	4	4
15-10.25 - 7	Schraube, verchromt screw, chrome-plated	1	1	1
15-12.03 -13/1	Unterlegscheibe washer	1	1	-
15-12.03 -14/1	Unterlegscheibe 0,1 mm, nach Bedarf washer 0.1 mm, when needed	1	1	-
15-12.03 -14/2	Unterlegscheibe 0,06mm, nach Bedarf washer 0.06 mm, when needed	1	1	-
15-12.06 -17/1	Scheibe, bei Bedarf washer, when needed	1	1	-
1,5 DIN 6799	Sicherungsscheibe C-clip	2	2	-

42-582/4.4	Leica M2 1138 701...	Leitz WETZLAR		
Bestell-Nr. Part-No.	Benennung Description	Leica-Mod. M2	M3	M1
42 216 -460	Öse eyelet	2	2	2
42-253.01-116	Hebel lever	1	1	1
42-253.01-538	Führungsbuchse guide bush	1	1	1
42-253.01-539	Druckfeder pressure spring	1	1	1
42-253.01-540	Führungsbolzen guide bolt	1	1	1
42-253.01-541	Raststück stop lever	1	1	1
42-253.01-554	Abstimmscheibe 0,1 mm, nach Bedarf adjusting washer 0.1 mm, when needed	1	1	-
42-253.01-560	Niet rivt	1	1	1
42-253.01-565	Dichtungsstreifen sealing strip	1	1	1
42-253.01-566	Abstimmscheibe 0,2 mm, nach Bedarf asjusting washer 0.2 mm, when needed	1	1	-
42-253.01-593	Kupplungsschraube coupling screw	1	1	-
42-253.01-594	Flansch flange	1	1	-
42-253.01-595	Buchse bushing	1	1	-
42-253.01-596	Abschlußkappe cover plate	1	1	-
42-253.01-597	Schraube screw	1	1	-
42-253.01-598	Führungsbuchse guide bushing	1	1	-
42-253.01-599	Druckfeder pressure spring	1	1	-
42-253.01-600	Druckbolzen pressure bolt	1	1	-
42-253.01-605	Hebel, genietet lever, riveted	1	1	-
42-253.01-904	Filzstreifen feld strip	1	1	-
42-253.01-938	Anschlagring flange ring	1	1	1
42-253.01-939	Federring spring ring	1	1	1
42-253.01-940	Schraube screw	4	4	4
42-253.01-941	Führungsbuchse, mont. guide bushing, ass.	1	1	1
42-253.01-948	Auslösebolzen, Untergruppe release bolt, sub group	1	1	-
42-253.01-955	Entkupplung, mont. coupling, ass.	1	1	-
42-582.01-440	Gehäuse, vollständig housing, complete	1	-	-
42-582.01-441	Gehäuse, genietet housing riveted	1	-	-
M1,7x3 LN 120 19	Schraube, brüniert screw, burnished	3	3	-
M 2x4 LN 120 21	Schraube, brüniert screw, burnished	1	1	1

TECHNISCHER KUNDENDIENST

21.11.66



●●● 704
B Sicherungslack
E Kleber EC 880

* siehe Reparaturanleitung, Blatt 55.1
see servicing instruction, sheet 55.1

** siehe Reparaturanleitung, Blatt 56.1
see servicing instruction, sheet 56.1

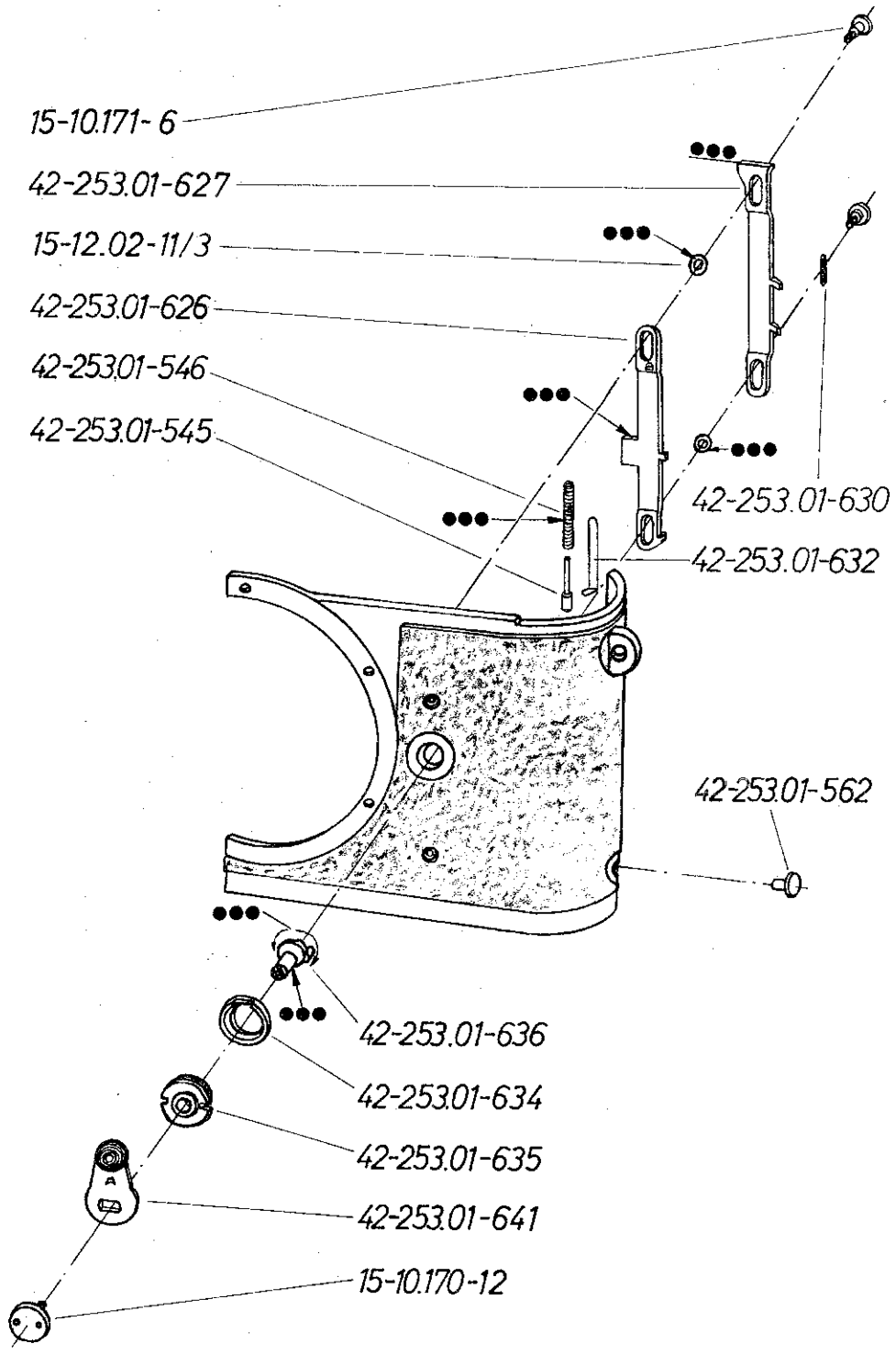
TECHNISCHER KUNDENDIENST

21.11.66

42-582/5.1	Leica M2 -926001...	Ernst Leitz GmbH Wetzlar

Bestell-Nr Part-No	Benennung Description	Leica-Modell M2	M3
42-253.01-545	Federstift spring pin	1	1
42-253.01-546	Druckfeder pressure spring	1	1
42-253.01-562	Niet rivet	1	1
42-253.01-626	Schieber, unterer lower sliding bar	1	1
42-253.01-627	Schieber, oberer upper sliding bar	1	1
42-253.01-630	Zugfeder tension spring	1	1
42-253.01-632	Stützwinkel angle	1	1
42-253.01-634	Buchse bushing	1	1
42-253.01-635	Führungsbuchse guide bushing	1	1
42-253.01-636	Nockenwelle shaft	1	1
42-253.01-641	Hebel, genietet lever, riveted	1	1
15-10.170-12	Schraube screw	1	1
15-10.171- 6	Schraube screw	2	2
15-12.02-11/2	Scheibe disc	2	2

1.10.62


15-10.171- 6
42-253.01-627
15-12.02-11/3
42-253.01-626
42-253.01-546
42-253.01-545
42-253.01-630
42-253.01-632
42-253.01-562
42-253.01-636
42-253.01-634
42-253.01-635
42-253.01-641
15-10.170-12

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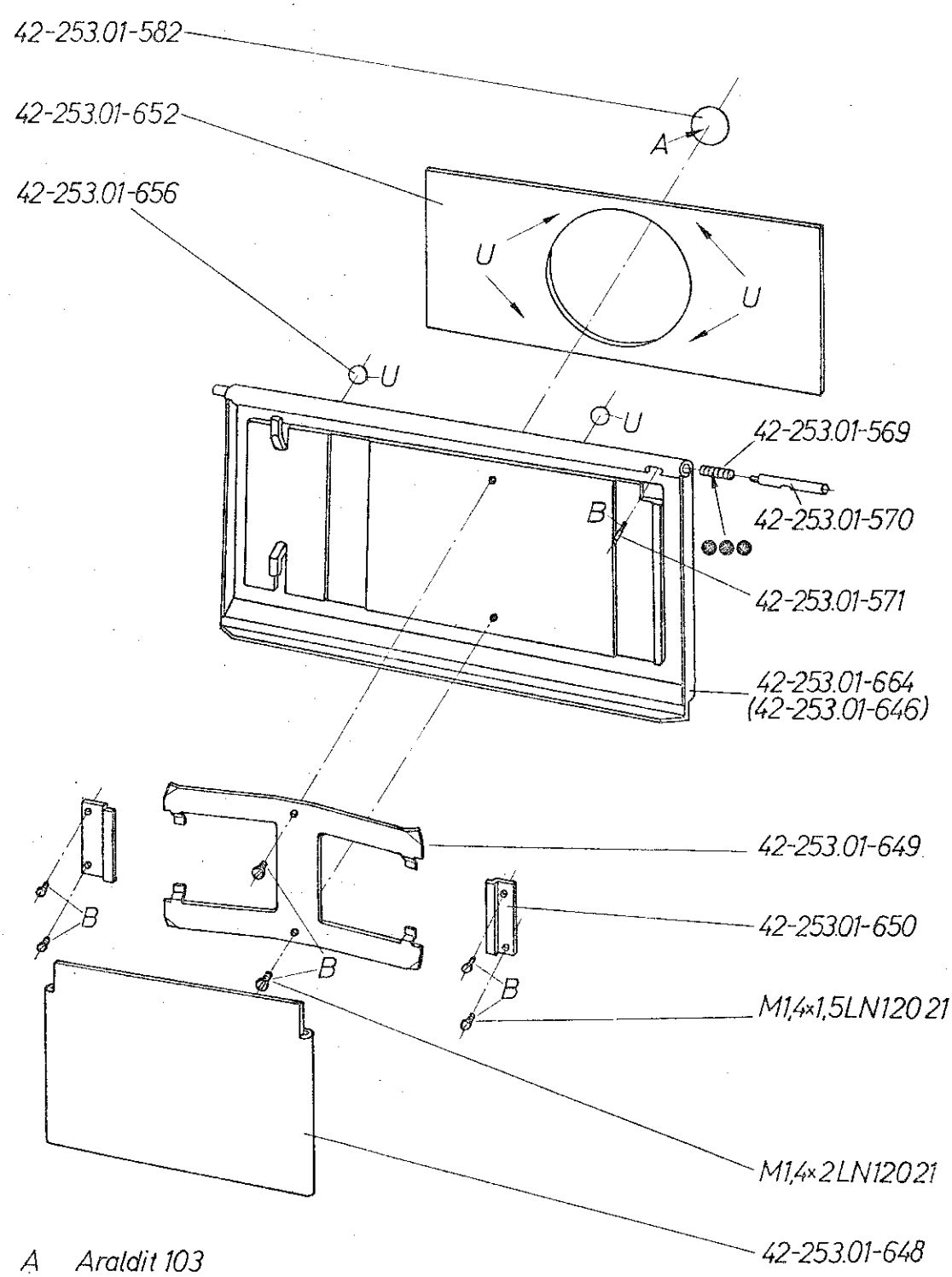
1.10.62

42-582/6.1	Leica M2 -926001...	Ernst Leitz GmbH Wetzlar	
Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3
42-253.01-569	Druckfeder pressure spring	1	1
42-253.01-570	Rastbolzen hinge shaft	1	1
42-253.01-571	Gewindestift threaded pin	1	1
42-253.01-582	Bildscheibe film type indicator	1	1
42-253.01-646	Rückwand, kompl. rear, compl.	1	1
42-253.01-648	Andruckplatte pressure plate	1	1
42-253.01-649	Feder spring	1	1
42-253.01-650	Halteblech holding plate	2	2
42-253.01-652	Gummistück rubber covering	1	1
42-253.01-656	Nippel nipple	2	2
42-253.01-664	Platte, mont. plate, ass.	1	1
M1,4x1,5 LN120 21	Schraube , schwarz halbmatt screw , black semimat	4	4
M1,4x 2 LN 120 21	Schraube , brüniert screw , burnished	2	2

1. 3.62



A Araldit 103
B Sicherungs-Lack
U UHU-hart
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1. 3. 62

Bestell-Nr Part-No	Benennung Description	Leica Modell M2	M3	M1
42-253.01- 83	Blende light shield	1	1	1
42-253.01- 84	Plüschstreifen plush strip	2	2	2
42-253.01-107	Abdichtplättchen sealing plate	1	1	-
42-253.01-115	Exzenter / eccenter	1	1	-
42-253.01-420	Filzstreifen / feld strip	1	1	1
42-253.01-488	Lager, genietet bearing, riveted	1	1	1
42-253.01-489	Rückwickelknopf, kompl. mit 42-253.01-498, 42-253.01-499 und 15-10.21-11 rewind knob, compl. with 42-253.01-498, 42-253.01-499 and 15-10.21-11	1	1	1
		1	1	1
42-253.01-491	Rückspulachse rewind shaft	1	1	1
42-253.01-495	Mitnehmer carrier	1	1	1
42-253.01-496	Federrohr spring tube	1	1	1
42-253.01-497	Hülse sleeve	1	1	1
42-253.01-501	Zahnrad gear	1	1	1
42-253.01-502	Mitnehmer carrier	1	1	1
42-253.01-804	Deckscheibe, kompl. cover plate, compl.	1	1	1
42-253.17- 25	Anschlagscheibe stop disc	1	1	-
42-253.17- 26	Exzenter eccenter	1	1	-
42-253.17-128	Rollenhebel, mont. / roller arm, ass.	1	1	-
42-582.03- 1	Entfernungsmesser, mont. range finder, ass.	1	-	-
42-582.03- 28	Maskenverstellung, Untergruppe mask adjusting device, sup group	1	-	1
42-582.03- 35	Feder / spring	1	-	1
42-582.03-124	Lichtschutz light shield	1	-	-
42-582.03-159	Lichtschutz / light shield	1	-	1
42-582.04-130	Abschlußstück cover piece	1	-	-
AM 2x2,8 DIN 84	Schraube, brüniert / screw, burnished	2	2	2
M1,7 x 3 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2	-	-
M1,7x2,5 LN 12021	Schraube, brüniert / screw, burnished	1	1	1
M 2x4 LN 120 21	Schraube, brüniert / screw, burnished	1	1	1
M 2x4,5 LN 120 21	Schraube, brüniert / screw, burnished	2	2	2
15-10.20- 8	Schraube, brüniert / screw, burnished	2	2	2
15-10.29-13	Schraube, brüniert screw, burnished	1	1	-
15-12.02-17/2	Scheibe washer	1	1	-
15-12.03-15/1	Scheibe washer	1	1	1
15-12.05-32/1	Scheibe washer	1	1	1

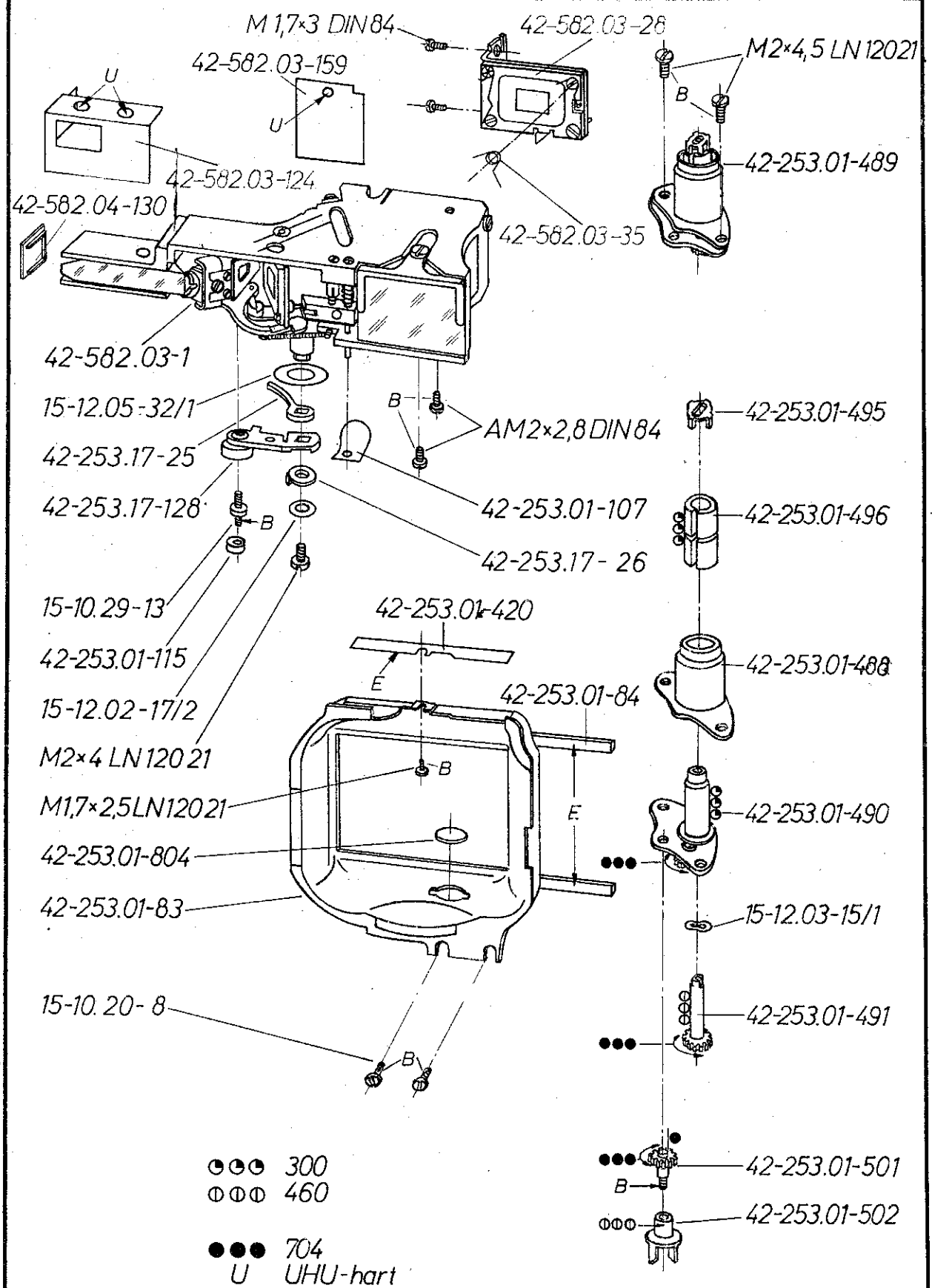
TECHNISCHER KUNDENDIENST

21.11.66

Leitz WETZLAR

Leica M 2 926001...1004150

42-582/7.1



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◑◑◑	460
●●●	704
U	UHU-hart
E	EC 880
B	Sicherungslack

TECHNISCHER KUNDENDIENST

21.11.66

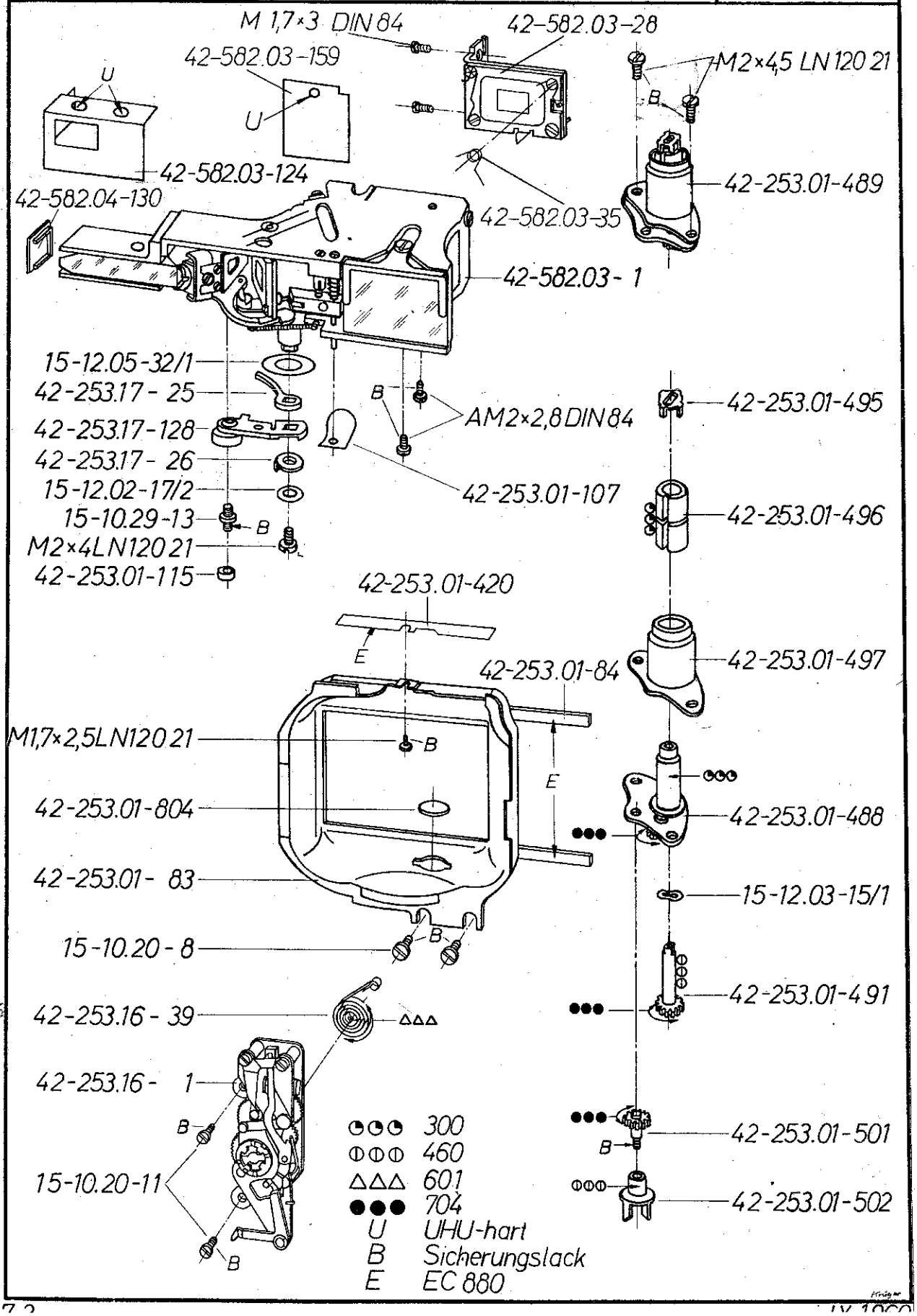
Ernst Leitz GmbH Wetzlar	Leica M2 1004 151...1053 311	42-582/ 7.2

Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
15-12.02-17/2	Scheibe washer	1	1	-
15-12.03-15/1	Scheibe washer	1	1	1
15-12.05-32/1	Scheibe washer	1	1	1

Bestell-Nr Part-No	Benennung Description	Leica-Modell M2	M3	M1
42-253.01- 83	Blende light shield	1	1	1
42-253.01- 84	Plüschstreifen plush strip	2	2	2
42-253.01-107	Abdichtplättchen sealing plate	1	1	-
42-253.01-115	Exzenter eccenter	1	1	-
42-253.01-420	Filzstreifen / feld strip	1	1	1
42-253.01-488	Lager, genietet / bearing, riveted	1	1	1
42-253.01-489	Rückwickelknopf, kompl. mit 42-253.01-498, 42-253.01-499 und 15-10.21-11 rewind knob, compl. with 42-253.01-498 42-253.01-499 and 15-10.21-11	1	1	1
		1	1	1
42-253.01-491	Rückspulachse rewind shaft	1	1	1
42-253.01-495	Mitnehmer carrier	1	1	1
42-253.01-496	Federrohr spring tube	1	1	1
42-253.01-497	Hülse sleeve	1	1	1
42-253.01-501	Zahnrad gear	1	1	1
42-253.01-502	Mitnehmer carrier	1	1	1
42-253.01-804	Deckscheibe, kompl. cover plate, compl.	1	1	1
42-253.16- 1	Vorlaufwerk, kompl. selftimer, compl.	1	1	-
42-253.16- 39	Aufzugfeder winding spring	1	1	-
42-253.17- 25	Anschlagscheibe stop disc	1	1	-
42-253.17- 26	Exzenter eccenter	1	1	-
42-253.17-128	Rollenhebel, mont./roller arm, ass.	1	1	-
42-582.03- 1	Entfernungsmesser, mont. range finder, ass.	1	-	-
42-582.03- 28	Maskenverstellung, Untergruppe mask adjusting device, sub group	1	-	-
42-582.03- 35	Feder / spring	1	-	-
42-582.03-124	Lichtschutz / light shield			
42-582.03-159	Lichtschutz / light shield	1	-	1
42-582.04-130	Abschlußstück / cover piece	1	-	-
AM 2 x 2,8 DIN84	Schraube, brüniert / screw, burnished	2	2	2
M1,7 x 3 DIN 84	Zylinderschraube, brüniert cylindrical head screw, burnished	2	-	-
M1,7x2,5 LN12021	Schraube, brüniert/ screw, burnished	1	1	1
M 2 x 4 LN 120 21	Schraube, brüniert / screw, burnished	2	2	2
15-10.20- 8	Schraube, brüniert /screw, burnished	2	2	2
15-10.20-11	Zylinderschraube, brüniert cylindrical head screw, burnished	2	2	-
15-10.29-13	Schraube, brüniert screw, burnished	1	1	-

TECHNISCHER KUNDENDIENST

21.11.66



TECHNISCHER KUNDENDIENST

21.11.66

Leitz WETZLAR

Leica M2 1053 312

42 582/ 7.3

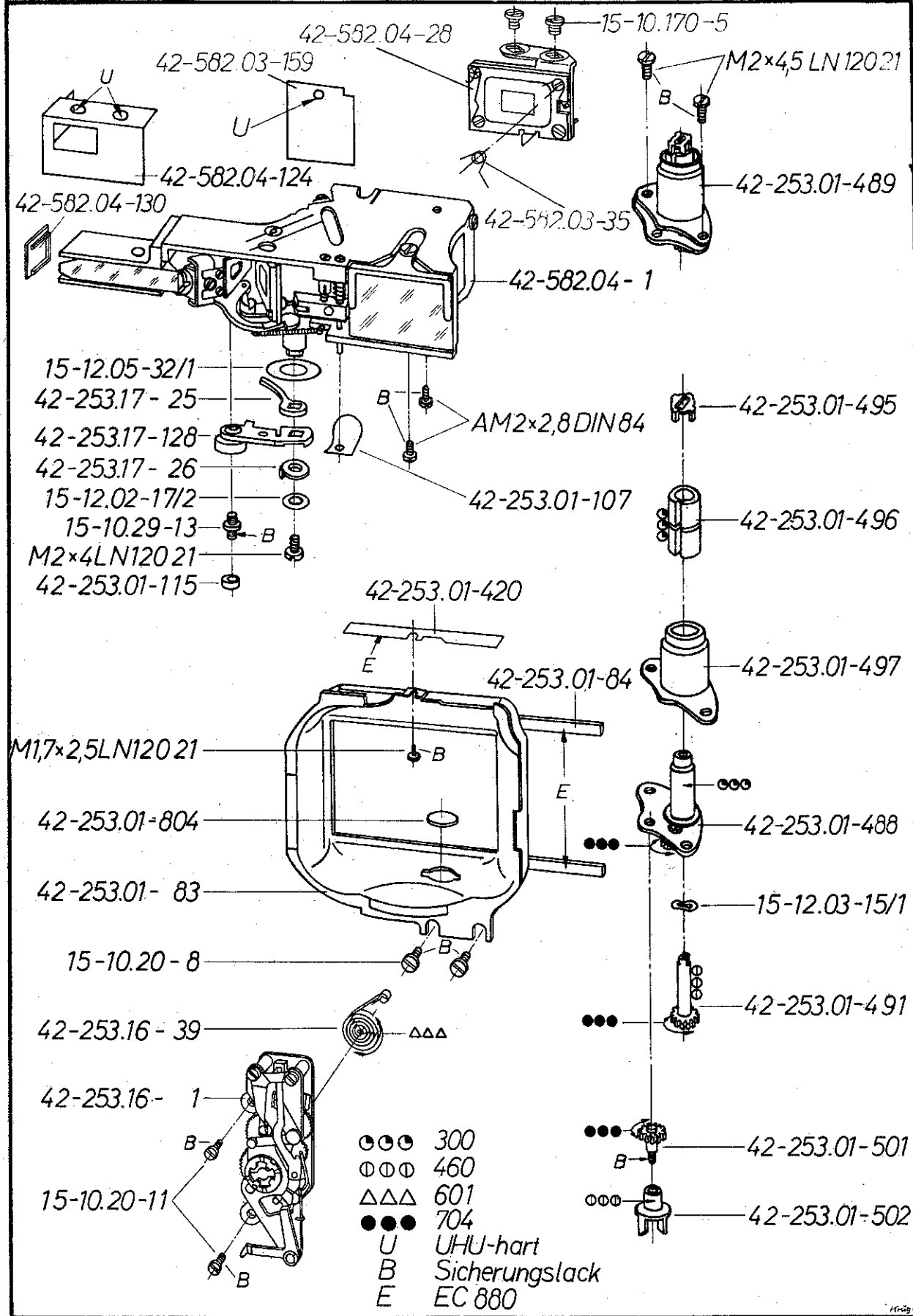
Bestell-Nr. Part-No.	Benennung Descreprion	Leica-Modelle M2	M3	M1
15-10. 20- 8	Schraube, brüniert screw, burnished	2	2	2
15-10. 20-11	Zylinderschraube, brüniert cylindrical head screw, burnished	2	2	-
15-10. 29-13	Schraube,brüniert screw, burnished	1	1	-
15-10.170- 5	Zylinderschraube, brüniert cylindrical head screw, burnished	2	-	-
15-12.02-17/2	Scheibe washer	1	1	-
15-12.03-15/1	Scheibe washer	1	1	1
15-12.05-32/1	Scheibe washer	1	1	1

26.2.68

42-582/ 7.3	Leica M2 1053 312	Leitz WETZLAR		
Bestell-Nr. Part-No.	Benennung Descreption	Leica - Modelle M2	M3	M1
42-253.01- 83	Blende light shield	1	1	1
42-253.01- 84	Plüschstreifen plush strip	2	2	2
42-253.01-107	Abdichtplättchen sealing plate	1	1	-
42-253.01-115	Exzenter eccenter	1	1	-
42-253.01-420	Filzstreifen feld strip	1	1	1
42-253.01-488	Lager, genietet bearing, riveted	1	1	1
42-253.01-489	Rückwickelknopf, kompl. mit 42-253.01-498, 42-253.01-499 und 15-10.21-11 rewind knob, compl. with 42-253.01-489 42-253.01-499 and 15-10.21-11	1	1	1
42-253.01-491	Rückspulachse rewind shaft	1	1	1
42-253.01-495	Mitnehmer carrier	1	1	1
42-253.01-496	Federrohr spring tube	1	1	1
42-253.01-497	Hülse sleeve	1	1	1
42-253.01-501	Zahnrad gear	1	1	1
42-253.01-502	Mitnehmer carrier	1	1	1
42-253.01-804	Deckscheibe, kompl. cover plate, compl.	1	1	1
42-253.16- 1	Vorlaufwerk, kompl. selftimer, compl.	1	1	-
42-253.16- 39	Aufzugfeder winding spring	1	1	-
42-253.17- 25	Anschlagscheibe stop disc	1	1	-
42-253.17- 26	Exzenter eccenter	1	1	-
42-253.17-128	Rollenhebel, mont. roller arm, ass.	1	1	-
42-582.03- 35	Feder spring	1	-	-
42-582.03-159	Lichtschutz light shield	1	-	1
42-582.04- 1	Entfernungsmesser, mont. range finder, ass.	1	-	-
42-582.04- 28	Maskenverstellung, Untergruppe mask adjusting device, sub groub	1	-	-
42-582.04-124	Lichtschutz light shield	1	-	1
42-582.04-130	Abschlußstück / cover piece	1	-	-
AM 2 x 2,8 DIN84	Schraube, brüniert screw, burnished	2	2	2
M1,7x2,5 LN 1202	Schraube, brüniert screw, burnished	1	1	1
M 2 x 4 LN 120 21	Schraube, burnished screw, burnished	1	1	1
M2x4,5 LN 120 21	Schraube, brüniert screw, burnished	2	2	2

TECHNISCHER KUNDENDIENST

26.2.68



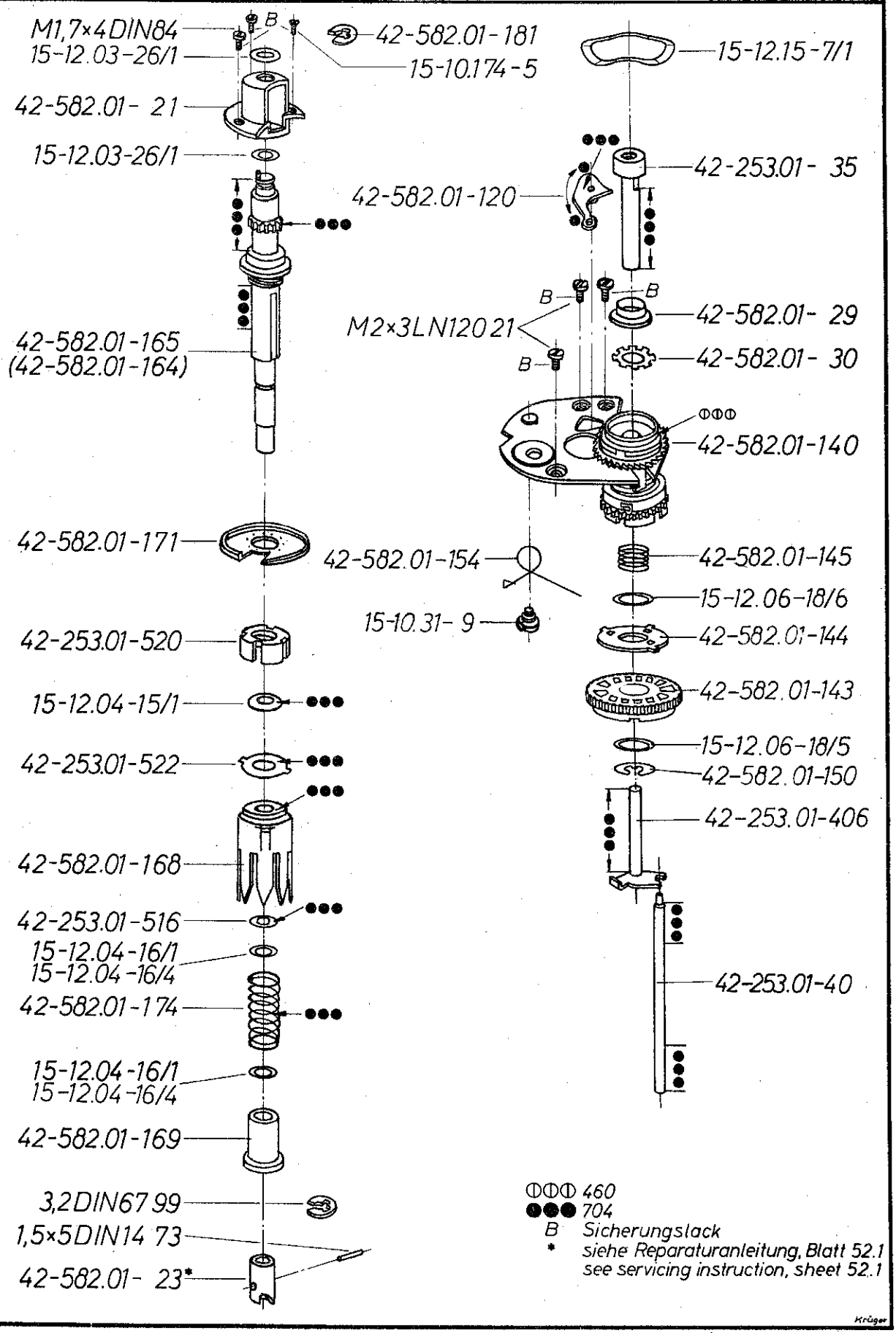
TECHNISCHE AENDERUNGEN VORBEHALTEN

25.2.68

42-582/ 8.1	Leica M2 926 001...966 500	Leitz WETZLAR		
Bestell-Nr Part-No	Benennung Description	Leica - Modell M2	M3	M1
42-253.01- 35	Auslöseknopf release knob	1	1	1
42-253.01- 40	Auslösestange release shaft	1	1	1
42-253.01-406	Auslösebolzen, mont. release shaft, ass.	1	1	1
42-253.01-516	Scheibe washer	1	-	1
42-253.01-520	Mutter nut	1	-	1
42-253.01-522	Friktionsscheibe friction washer	1	-	1
42-582.01- 21	Lagerbuchse / bearing bushing	1	-	1
42-582.01- 23	Mitnehmer / carrier	1	-	1
42-582.01- 29	Hülse / sleeve	1	-	1
42-582.01- 30	Zahnscheibe / gear disc	1	-	1
42-582.01-120	Klinke, genietet counting lever, riveted	1	-	1
42-582.01-140	Antriebachse,mont./ drive shaft, ass.	1	-	1
42-582.01-143	Zahnrad / gear	1	-	1
42-582.01-144	Kupplungsscheibe coupling disk	1	-	1
42-582.01-145	Druckfeder / pressure spring	1	-	1
42-582.01-150	Sicherungsscheibe / C-clip	1	-	1
42-582.01-154	Feder spring	1	-	1
42-582.01-164	Aufzugachse, kompl., ohne 01-23; 1,5x5 DIN 1473 winding shaft, compl., without 01-23;	1	-	1
42-582.01-165	Achse 1,5x5 DIN 1473 shaft	1	-	1
42-582.01-168	Spulenhalter spool holder	1	-	1
42-582.01-169	Hülse / sleeve	1	-	1
42-582.01-171	Sperrscheibe / lock disc	1	-	1
42-582.01-174	Friktionsfeder friction spring	1	-	1
42-582.01-181	Sicherungsscheibe / C-clip	1	-	1
M 1,7x4 DIN 84	Schraube / screw	2	-	2
M 2x3 LN 120 21	Schraube / screw	3	3	3
15-10.174- 5	Schraube / screw	1	1	1
15-10.31 - 9	Schraube / screw	1	-	1
15-12.03 -26/1	Scheibe / washer	2	-	2
15-12.04 -15/1	Tellerscheibe / lock washer	1	-	1
15-12.04 -16/1	Scheibe 0,3 mm, nach Bedarf washer 0.3 mm, when needed	2	-	2
15-12.04 -16/4	Scheibe 0,1 mm, nach Bedarf washer 0.1 mm. when needed	2	-	2
15-12.06 -18/5	Scheibe 0,1 mm dick washer 0.1 mm thick	1	-	1
15-12.06 -18/6	Scheibe 0,06 mm dick washer 0.06 mm thick	1	-	1
15-12.15 - 7/1	Federscheibe spring washer	1	-	1
1,5x5 DIN 1473	Zylinderstift cylinder pin	1	-	1
3,2 DIN 6799	Sicherungsscheibe C-clip	1	1	1

TECHNISCHER KUNDENDIENST

21.11.66



TECHNISCHER KUNDENDIENST

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